# Panasonic

2.4GHz Digital Cordless Answering System

# Operating Instructions

Model No. **KX-TG2257S**

**KX-TG2257PW**

Pulse-or-tone dialing capability

KX-TG2257S

Caller ID Compatible

**PLEASE READ BEFORE USE AND SAVE.**

**Charge the battery for about 15 hours before initial use.**

**Panasonic World Wide Web address: http://www.panasonic.com**
for customers in the USA or Puerto Rico

*Thank you for purchasing your new Panasonic cordless telephone.*

Please read IMPORTANT SAFETY INSTRUCTIONS on page 88 before use. Read and understand all instructions.

Caller ID and Call Waiting Service, where available, are telephone company services. After subscribing to Caller ID, this phone will display a caller's name and phone number. Call Waiting Caller ID, which displays a second caller's name and phone number while the user is on another call, requires a subscription to both Caller ID and Call Waiting.

**Attach your purchase receipt here.**

## Energy Star:

As an ENERGY STAR® Partner, Panasonic has determined that this product meets the ENERGY STAR guidelines for energy efficiency. ENERGY STAR is a U.S. registered mark.
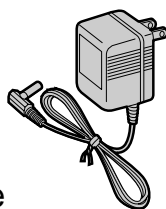
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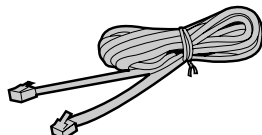
## Accessories (included) For extra orders, call 1-800-332-5368.

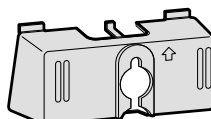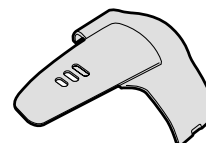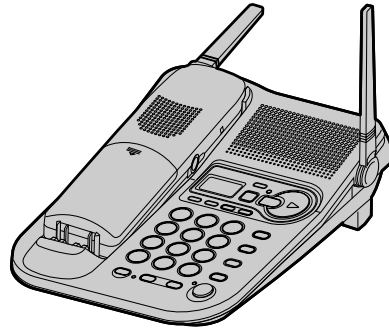| ☐ AC Adaptor (p. 13)<br>Order No. PQLV1Z<br>(PQLV1) | ☐ Telephone Line Cord (p. 13)<br>Order No.<br>PQJA10075Z | ☐ Battery (p. 14, 77)<br>Order No.<br>N4HKGMA00001<br>(P-P511) |
|---|---|---|
| one | one | one |
| ☐ Handset Cover (p. 14, 77)<br>Order No.<br>PQKK10127Z1 (Silver)<br>PQKK10127Z7<br>(Peal White) | ☐ Wall Mounting Adaptor (p. 74)<br>Order No.<br>PQKL10035Z3 (Silver)<br>PQKL10035Z2<br>(Peal White) | ☐ Belt Clip (p. 76)<br>Order No.<br>PQKE10341Z1 (Silver)<br>PQKE10341Z4<br>(Peal White) |
| one | one | one |

# For Best Performance

## Battery Charge

A rechargeable Ni-Cd battery powers the
handset. Charge the battery for about **15
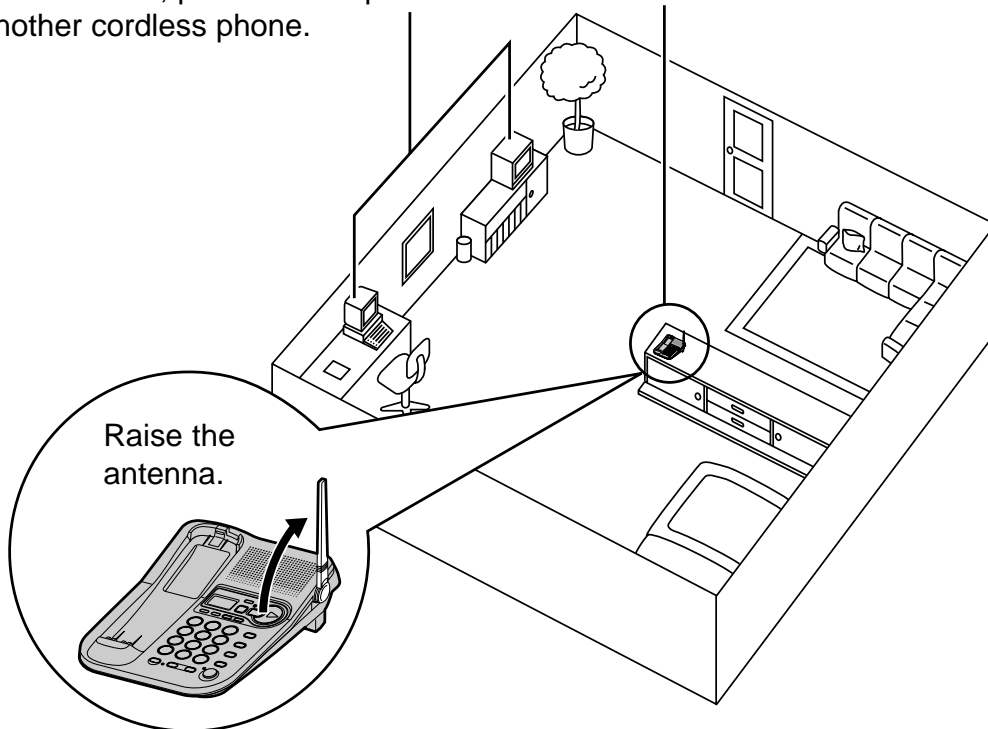hours** before initial use (p. 14).

## Base Unit Location/Noise

Calls are transmitted between the base unit and the handset using
wireless radio waves. **For maximum distance and noise-free
operation**, the recommended base unit location is:

Away from electrical appliances
such as a TV, personal computer or
another cordless phone.

In a HIGH and CENTRAL location
with no obstructions such as walls.

Raise the
antenna.

**Note:**
While using the handset:
- If you are near a microwave oven which is being used, noise may be heard from
  the receiver or the speaker. Move away from the microwave oven and closer to
  the base unit.
- If more than one cordless phone is being used and your handset is near another
  cordless phone's base unit, noise may be heard. Move away from the other
  cordless phone's base unit and closer to your base unit.

# Contents

## *Answering System*

## *Useful Information*

# Location of Controls

**Base unit**

Display (p. 12)    Antenna (p. 3, 13)

Hook (p. 74, 75)

IN USE/CHARGE
Indicator (p. 14)

Charge Contacts (p. 15)

(AUTO/PROGRAM)
Button (p. 45, 46)

(REDIAL/PAUSE)
Button (p. 35, 58)

(FLASH/CALL WAIT)
Button (p. 58, 59)

(HOLD/LOCATOR/INTERCOM)
Button (p. 35, 55)

(MUTE/RINGER)
Button (p. 20, 21, 57)

**VOLUME** ⌄, ⌃ Buttons
(p. 23, 35, 61)

(SP-PHONE) (Speakerphone) Button
and Indicator (p. 34, 36)

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[MESSAGE PLAYBACK/SLOW TALK] Button (p. 61)

[GREETING] Button (p. 23)

[ANSWER ON] Button and Indicator
(p. 60, 64)

[ERASE] Button (p. 24, 64)

[MEMO] Button (p. 65)

MESSAGE PLAYBACK
Indicator (p. 61, 65)

[STOP] Button (p. 23, 62)

[SKIP] Button (p. 62)

[TONE] Button (p. 57)

**MIC** (Microphone)
(p. 23, 34, 36, 55)

[REPEAT] Button (p. 62)

# ➡ Location of Controls

## Handset

Back side

Speaker (p. 30)

Antenna

Receiver (p. 33)

Display (p. 9)

MUTE Button (p. 57)

FUNCTION/2WAY REC
Button
(p. 18, 25, 42, 48, 65)

Headset Jack (p. 76)

(TALK) Button
(p. 30, 36, 40, 72)

(Speakerphone)
Button (p. 31, 36, 40, 72)

TONE Button (p. 57)

FLASH/CALL WAIT/PLAYBACK
Button (p. 58, 59, 63, 72)

CALLER IQ Button
(p. 11, 85, 86, 87)

OFF Button
(p. 18, 25, 30, 38, 55, 72)

Navigator Key
(▲,▼,◄,►)
(p. 18, 25, 31, 32, 38, 48, 49)

HOLD/INTERCOM/CLEAR
Button (p. 32, 44, 48, 54, 55)

REDIAL/PAUSE
Button (p. 31, 32, 58)

Microphone (p. 31)

Charge Contacts (p. 15)

---

### How to use the Navigator key

This key has four active areas that are indicated by arrows.

CH◄  ▲ LOUD/SEARCH ►  ►EDIT
▼

• Pressing the up or down arrow allows you to enter the Caller List and scroll through the function menu, the Caller List and the directory list. It is also used to adjust the handset ringer and receiver/speaker volumes.
• Pressing the right or left arrow allows you to enter the directory list and move the cursor when entering items. The right arrow is used to select or confirm your menu choices and to edit a phone number of the Caller List into one of 3 patterns.
The left arrow is used to select a clearer channel.

Throughout this Operating Instructions, the navigator key is indicated by the arrows ▼, ▲, ◄ or ►.

# Displays ➡

Both the handset and the base unit show you instructions and information on the displays. These display prompts are shown below.

**Preparation**

## Handset display

```
    Recharge
       { ▮]
```

The battery needs to be charged. Place the handset on the base unit to charge the battery (p. 15).

```
Received calls
          {▮▮▮]
```
(Handset on the base unit)

The display shows that you have received new calls (p. 38). To check the new calls, lift the handset and press ▼ or ▲.

```
Received calls▼
          {▮▮▮]
```
(Handset off the base unit)

The display shows that you have received new calls (p. 38). To check the new calls, press ▼ or ▲.

```
 12 new calls
▼▲  ▶=Directory
```

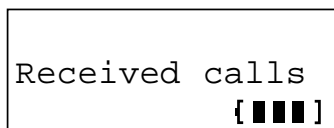This display shows the number of new calls when ▼ or ▲ is pressed while the handset is off the base unit.
To search from the most recent call, press ▼.
To search from the oldest call, press ▲ (p. 38).
To go to the directory list, press ▶ (Directory key).

```
  Ringer off
          {▮▮▮]
```

When the handset ringer volume is set to OFF (p. 20), "Ringer off" will flash for about 45 seconds after completing operations such as talk, viewing the Caller List or programming.

```
ROBINSON,TINA
1-000-222-3333
```

When a call is received, the display shows the caller's name and number after the first ring.

```
Talk

01-06-35   {▮▮▮]
```

During a conversation, the display shows the length of the call (ex. 1 hour, 6 minutes and 35 seconds). The battery strength is also displayed (p. 15).

**For assistance, please call: 1-800-211-PANA(7262)**    *9*

# ➡ Displays

```
No link to base
Place on cradle
and try again.
```

The handset has lost communication with the base unit. Place the handset on the base unit and try again.

```
SMITH,JACK
1-222-333-4444
11:20A JAN10 X3
```

This is a name from the Caller List.
The display shows:
— the caller's name,
— the caller's number,
— the time and date of the last call
   (ex. Jan. 10, 11:20 AM), and
— the number of times called (ex. 3 times).

```
Ann
123-456-7890
```

This is a name from the directory. The stored name and phone number are displayed.

```
BROWN,NANCY
1-555-666-7777
----Waiting----
```

A second call is received during a conversation (p. 58).

```
Please lift up
and try again.
```

▼, ▲, ◀ or ▶ was pressed while the handset was on the base unit. Lift the handset and press the button again.

```
Not available
```

While the base unit was in use, ▼ or ▲ was pressed to search the Caller List/directory list, ▶ was pressed to select an option or **(HOLD/INTERCOM/CLEAR)** was pressed.

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| | |
|---|---|
| Directory full | When trying to store an item or Caller List information in the directory, the directory memory is full (p. 43, 48). |
| Save error | While programming procedure, the handset has lost communication with the base unit. Move closer to the base unit and try again. |
| Remote operation 〖▮▮▮〗 | The handset is operating the answering system remotely (p. 72). |
| [Caller IQ on] 〖▮▮▮〗 | Caller IQ service is set to ON. |
| Set Caller IQ to on. | **CALLER IQ** was pressed after 📞 or 🔊, while Caller IQ function was OFF. |
| Download incomplete. Directory full. | When trying to download an item in the directory, the directory memory is full (p. 86). |
| Download incomplete. Try again. | During downloading, the unit has lost communication with openLCR. |

# ➡ **Displays**

## **Base unit display**

| Display | Meaning |
|---|---|
| ☼ | The clock needs adjusting (p. 26). |
| E | Your greeting or memo message was not recorded correctly. Record it again (p. 23, 65). |
| P | The unit is in the answering system programming mode. |
| 5 | The speaker volume level is set to "5". You can select: <br>—9 levels (0–8) are available while using the answering system (p. 23, 61). <br>—8 levels (1–8) are available while using the speakerphone (p. 35) and the intercom (p. 56). |
| 12 | 12 messages have been recorded. |
| FULL | Memory is full. Erase some, or all, of the messages (p. 64). |
| RINGER OFF | The ringer volume is set to OFF (p. 20). |
| (blank) | The recording time is set to "Greeting only" (p. 28). (The display is blank.) |
| dL | The unit is downloading from openLCR. |

# Settings ➡

## Connections

Fasten the AC adaptor cord to prevent it from being disconnected.

Hook

Single-Line Telephone Jack (RJ11C)

Telephone Line Cord

Power Outlet (AC 120 V, 60 Hz)

AC Adaptor

Raise the antenna.

- •USE ONLY WITH Panasonic AC ADAPTOR PQLV1 (Order No. PQLV1Z).
- •The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- •To connect a standard telephone on the same line, see page 78.
- •If your unit is connected to a PBX which does not support Caller ID services, you cannot access those services.

# Installing the Battery in the Handset

Insert the battery into the handset as shown, matching the correct polarity (①). Press the battery down until it places into the compartment (②). When finished, close the cover.

# Battery Charge

Place the handset on the base unit and charge for about **15 hours** before initial use.

•The IN USE/CHARGE indicator lights and a beep sounds.

**OR**

IN USE/CHARGE Indicator

## Battery strength

You can check the battery strength on the handset display.
The battery strength is as shown in the chart below.

| Display prompt | Battery strength |
|---|---|
| 〔■■■〕 | Fully charged |
| 〔 ■■〕 | Medium |
| 〔 ■〕 | Low |
| 〔 ■〕 (flashing) | Needs to be recharged. |

## Recharge

Recharge the battery when:
—"Recharge" is displayed on
  the handset,
—"〔 ■〕" flashes on the display, or
—the handset beeps intermittently while it is in use.

```
Recharge
        〔   ■〕
```

•If you DO NOT recharge the handset battery for more than 15 minutes, the display will keep indicating "Recharge" and/or "〔 ■〕" will continue to flash.

## Battery information

After your Panasonic battery is fully charged (p. 14):

| Operation | Operating time |
|---|---|
| While in use (TALK) | Up to 5 hours |
| While not in use (Standby) | Up to 11 days |

•The battery operating time may be shortened depending on usage conditions, such as viewing the Caller ID Caller List or directory list, and ambient temperature.
•**Clean the handset and the base unit charge contacts with a soft, dry cloth once a month. Clean more often if the unit is subject to grease, dust or high humidity.** Otherwise the battery may not charge properly.
•If the battery is fully charged, you do not have to place the handset on the base unit until "Recharge" is displayed and/or "〔 ■〕" flashes. This will maximize the battery life.
•The battery cannot be overcharged.

# Dialing Mode

If you have touch tone service, set to "Tone". If rotary or pulse service is used, set to "Pulse". Your phone comes from the factory set to "Tone". **Make sure the unit is not being used and the handset is lifted off the base unit.**

**1** Press (**FUNCTION/2WAY REC**).

```
--------------
▶Save directory
 Ringer volume
```

**2** Scroll to "Program" by pressing ▼ or ▲.

```
 Ringer pattern
▶Program
 --------------
```

**3** Press ▶.

```
--------------
▶TAD program
 Set flash time
```

**4** Scroll to "Set dial mode" by pressing ▼ or ▲.

```
 Set line mode
▶Set dial mode
 Talk switching
```

**5** Press ▶.

```
 Dial mode
         :Tone
▼▲      ▶=Save
```

**6** Select "Pulse" or "Tone" by pressing ▼ or ▲.

```
 Dial mode
         :Pulse
▼▲      ▶=Save
```

**7** Press ▶ (Save key).
• A beep sounds.
• To exit the programming mode, press (**OFF**).

```
 Dial mode
         :Pulse
```

• You can exit the programming mode any time by pressing (**OFF**).

# Line Mode

If the line is connected to a low voltage system such as a PBX, set to "B".
Your phone comes from the factory set to "A".
**Make sure the unit is not being used and the handset is lifted off the base unit.**

1 Press (**FUNCTION/2WAY REC**).

```
--------------
▶Save directory
 Ringer volume
```

2 Scroll to "Program" by pressing ▼ or ▲.

```
 Ringer pattern
▶Program
 --------------
```

3 Press ▶.

```
--------------
▶TAD program
 Set flash time
```

4 Scroll to "Set line mode" by pressing ▼ or ▲.

```
 Set flash time
▶Set line mode
 Set dial mode
```

5 Press ▶.

```
 Line mode
          :A
▼▲      ▶=Save
```

6 Select "B" or "A" by pressing ▼ or ▲.

```
 Line mode
          :B
▼▲      ▶=Save
```

7 Press ▶ (Save key).
•A beep sounds.
•To exit the programming mode, press (OFF).

```
 Line mode
          :B
```

•You can exit the programming mode any time by pressing (OFF).

# Programmable Functions

You can program the following function items **using the handset near the base unit**. The display shows the programming instructions. See the corresponding pages for function details.
**Make sure the unit is not being used and the handset is lifted off the base unit.**

Press (**FUNCTION/2WAY REC**).

<Function menu>*

```
-------------
▶Save directory········· To store an item in the directory (p. 48).
 Ringer volume ········· To select the ringer volume (p. 20).
 Ringer pattern········· To select the ringer pattern (p. 21).
 Program
-------------
```

Press ▶.

<Function menu>*

```
-------------
▶TAD program··············· To program answering system functions (p. 25).
 Set flash time········· To select the flash time (p. 59).
 Set line mode········· To select the line mode (p. 17).
 Set dial mode········· To select the dialing mode (p. 16).
 Talk switching········· To set the Auto Talk feature (p. 19).
 CallerID edit·········· To set the Caller ID Number Auto Edit feature (p. 42).
 LCD contrast ········· To select the LCD contrast (p. 22).
-------------
```

**During programming:**
*To select a desired function item, scroll through the items by pressing ▼ or ▲. Then press ▶ to go to the next step.
• "-------------" indicates the beginning or end of the function menu.
• You can exit the programming mode any time by pressing (OFF).
• If you do not press any buttons for 60 seconds, the unit will exit the programming mode.
• If the handset has lost communication with the base unit, 3 beeps sound and "No link to base Place on cradle and try again." is displayed.

# Auto Talk Feature

The Auto Talk feature allows you to answer a call by lifting the handset off the base unit without pressing 📞 or ⟨📢⟩. If you want to use this feature, turn the feature ON by programming. Your phone comes from the factory set to OFF.
**Make sure the unit is not being used and the handset is lifted off the base unit.**

**1** Press (**FUNCTION/2WAY REC**).

**2** Scroll to "`Program`" by pressing ▼ or ▲.

```
 Ringer pattern
▶Program
 --------------
```

**3** Press ▶.

**4** Scroll to "`Talk switching`" by pressing ▼ or ▲.

```
 Set dial mode
▶Talk switching
 CallerID edit
```

**5** Press ▶.

```
 Auto talk
            :Off
▼▲       ▶=Save
```

**6** Select "`On`" or "`Off`" by pressing ▼ or ▲.

```
 Auto talk
            :On
▼▲       ▶=Save
```

**7** Press ▶ (`Save` key).
•A beep sounds.
•To exit the programming mode, press (**OFF**).

```
 Auto talk
            :On
```

•You can exit the programming mode any time by pressing (**OFF**).
•In order to view Caller ID information after you lift up the handset to answer a call, leave the Auto Talk feature OFF.

# Ringer Volume

You can program the handset or base unit ringer volume to HIGH, LOW or OFF. If set to OFF, the handset or base unit will not ring. Your phone comes from the factory set to HIGH.
**Make sure the unit is not being used and the handset is lifted off the base unit.**

## With the handset

**1** Press (FUNCTION/2WAY REC).

**2** Scroll to "Ringer volume" by pressing ▼ or ▲.

```
 Save directory
▶Ringer volume
 Ringer pattern
```

**3** Press ▶.

HIGH
```
 Ringer
Low ██████ High
▼▲          ▶=Save
```
▼ ▼ ▲ ▲

**4** Select the desired volume by pressing ▼ or ▲.
•Each time you press ▼ or ▲, the volume will change and ring.
•If you set to OFF, the unit will not ring.

LOW
```
 Ringer
Low ██       High
▼▲          ▶=Save
```
▼ ▼ ▲ ▲

**5** Press ▶ (Save key).
•A beep sounds.

OFF
```
  Ringer off
▼▲          ▶=Save
```

•You can exit the programming mode any time by pressing (OFF).
•When you replace the battery, the selected ringer volume setting will return to the factory set (HIGH). Reprogram if necessary.

## With the base unit

**To select HIGH (preset) or LOW**, press (MUTE/RINGER).

•Each time you press the button, the ringer volume will change and ring.

**To turn the ringer OFF**, press and hold (MUTE/RINGER) until 2 beeps sound.

•" RINGER OFF " is displayed.

**To turn the ringer ON**, press (MUTE/RINGER).

•The ringer will sound at the HIGH level.

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# Ringer Pattern

You can select the handset or the base unit ringer pattern out of 6 patterns. When an incoming call is being received, the unit rings in the selected pattern.
Your phone comes from the factory set to 1.
**Make sure the unit is not being used and the handset is lifted off the base unit.**

## With the handset

**1** Press (**FUNCTION/2WAY REC**).

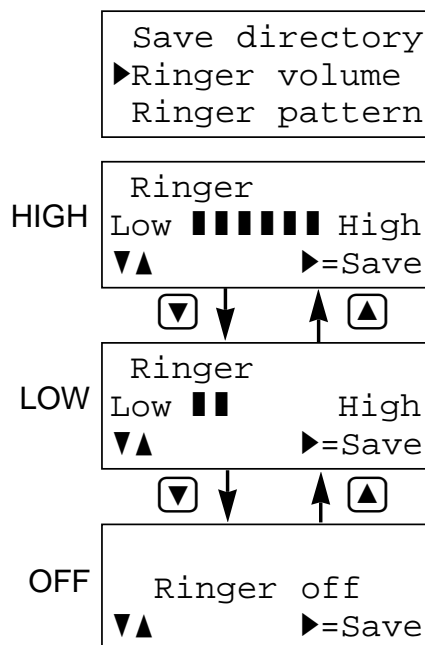**2** Scroll to "Ringer pattern" by pressing ▼ or ▲.

```
  Ringer volume
▶Ringer pattern
  Program
```

**3** Press ▶.
  •The current setting is displayed.

```
Ringer pattern
            :1
▼▲      ▶=Save
```

**4** Select the desired ringer pattern by pressing ▼ or ▲.

  •Each time you press ▼ or ▲, the ringer pattern will change and ring.
  •You can also select the ringer pattern by pressing dialing buttons [1] to [6].
  •If you set the ringer volume to OFF, the handset will not ring (p. 20).

```
Ringer pattern
            :3
▼▲      ▶=Save
```

**5** Press ▶ (Save key).
  •A beep sounds.
  •To exit the programming mode, press (**OFF**).

```
Ringer pattern
            :3
```

•You can exit the programming mode any time by pressing (**OFF**).

## With the base unit

**1** Press (**MUTE/RINGER**).

  •The base unit rings at the current setting.

**2** Within 5 seconds, select the desired ringer pattern by pressing dialing buttons [1] to [6].

  •Each time you press the buttons, the ringer pattern will change and ring.

# LCD Contrast

You can program the handset LCD contrast (5 levels). To make the handset display clearer, set to high level. Your phone comes from the factory set to level 3.
**Make sure the unit is not being used and the handset is lifted off the base unit.**

**1** Press (**FUNCTION/2WAY REC**).

**2** Scroll to "Program" by pressing (▼) or (▲).

```
 Ringer pattern
▶Program
 --------------
```

**3** Press (▶).

```
 --------------
▶TAD program
 Set flash time
```

**4** Scroll to "LCD contrast" by pressing (▼) or (▲).

```
 CallerID edit
▶LCD contrast
 --------------
```

**5** Press (▶).

```
 LCD contrast
 Low ███    High
▼▲         ▶=Save
```

**6** Select the desired contrast by pressing (▼) or (▲).

•Each time you press (▼) or (▲), the LCD contrast will change.

**7** Press (▶) (Save key).

•A beep sounds.
•To exit the programming mode, press (**OFF**).

```
 LCD contrast
 Low █      High
```

•You can exit the programming mode any time by pressing (**OFF**).
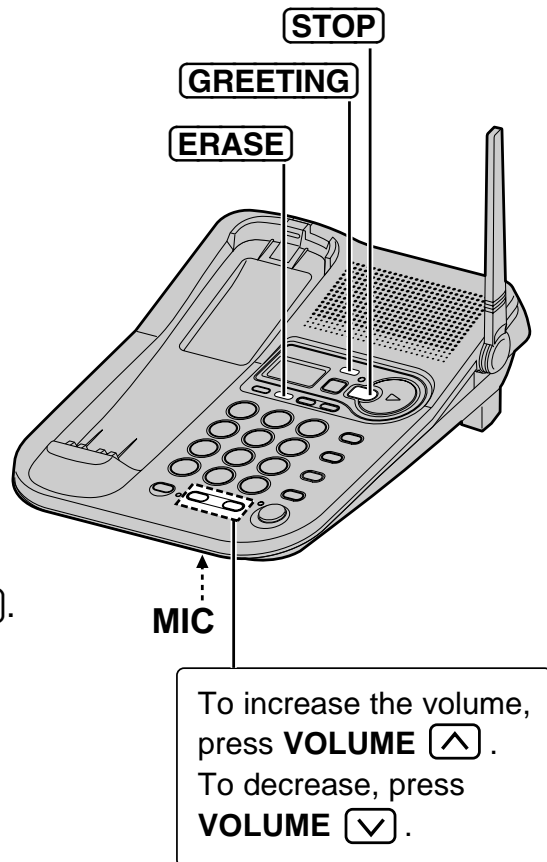
# Preparing the Answering System ➡

## Greeting Message

You can record a personal greeting message of **up to 2 minutes**. If a greeting message is not recorded, one of two pre-recorded greetings will be played when a call is received (p. 24).

All messages (greeting, incoming, memo, etc.) are stored in digital memory (p. 24). The **total recording time is about 15 minutes**. We recommend you record **a brief greeting message** (see sample below) in order to leave more time for recording new messages.

### To record a greeting message

**1** Press and hold (GREETING) until "Record greeting after the beep" is heard.

•A long beep sounds.

**2** Talk clearly, about 8 inches (20 cm) away from the **MIC** (microphone).

•The base unit display shows the elapsed recording time.
•If you record for over 2 minutes, the unit will automatically stop recording.

**3** When finished, press (GREETING).

•The unit will automatically play back the recorded greeting.
•You can also finish recording by pressing (STOP).
•To change the message, start again from step 1.

(STOP)
(GREETING)
(ERASE)

**MIC**

To increase the volume, press **VOLUME** (⌃).
To decrease, press **VOLUME** (⌄).

---

### Greeting message sample

"Hello, this is (your name and/or number). Sorry I cannot take your call. Please leave a message after the beep. Thank you."

## To check the recorded greeting message

Press (**GREETING**).

## To erase the recorded greeting message

Press (**GREETING**), and then press (**ERASE**) while the message is being played.

•The unit will answer a call with a pre-recorded greeting.

## Pre-recorded greeting message

If you do not record a greeting message (p. 23), one of two messages will be played when a call is received, depending on the caller's recording time (p. 28).

**To check the pre-recorded greeting**, press (**GREETING**).

•A pre-recorded greeting will be played as follows:

■ When the recording time is set to "1 minute", "2 minutes" or "3 minutes":
  "Hello, we are not available now. Please leave your name and phone number after the beep. We will return your call."

■ When the recording time is set to "Greeting only":
  "Hello, we are not available now. Please call again. Thank you for your call."

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### Flash Memory Message Backup

Messages are stored on a "flash memory" IC chip and will not be affected by power failures. All messages are saved until you erase them.

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# Programming Summary for Answering System

You can program the following functions **using the handset near the base unit.** The display shows the programming instructions. See the corresponding pages for function details.
**Make sure the unit is not being used and the handset is lifted off the base unit.**

| Press (**FUNCTION/2WAY REC**). |
|---|

⬇

| Scroll to "Program" by pressing ▼ or ▲, and press ▶. |
|---|

⬇

| Press ▶ at "TAD program". |
|---|

⬇

Select the desired function by pressing ▼ or ▲, and press ▶.

```
-------------
▶Day and time ············· To adjust the day and time (p. 26).
 Remote code ·············· To set the remote code (p. 67).
 Number of ring ·········· To select the number of rings (p. 29).
 Recording time ·········· To select the caller's recording time (p. 28).
-------------
```

⬇

When finished setting, press ▶ (Save key).
• A beep sounds from the base unit.
• To exit the programming mode, press (**OFF**).

• "-------------" indicates the beginning or end of the function menu.
• You can exit the programming mode any time by pressing (**OFF**).
• If you do not press any buttons for 60 seconds, the unit will exit the programming mode.
• If the handset has lost communication with the base unit, 3 beeps sound and "No link to base Place on cradle and try again." is displayed.

# Day and Time

**Voice Day/Time Stamp:** During playback, a synthesized voice will announce the day and time that each message was recorded.

**Make sure the unit is not being used and the handset is lifted off the base unit.**

**1** Press (**FUNCTION/2WAY REC**).

**2** Scroll to "Program" by pressing ▼ or ▲.

```
 Ringer pattern
▶Program
 --------------
```

**3** Press ▶.

```
 --------------
▶TAD program
 Set flash time
```

**4** Press ▶ at "TAD program".

```
 --------------
▶Day and time
 Remote code
```

**5** Press ▶ at "Day and time".
  • "Set time" is announced from the base unit.
    If previously adjusted, the day/time will be heard.

```
SUN 12:00 AM
#=Day  0-9=Time
*=AM/PM  ▶=Save
```

**6** Enter the current time (hour and minute) using a 4-digit number.
(Ex. To set 9:30, enter "0930".)

```
SUN 09:30 AM
#=Day  0-9=Time
*=AM/PM  ▶=Save
```

**7** Press * to select "AM" or "PM".
Press # repeatedly to set the day.

```
MON 09:30 AM
#=Day  0-9=Time
*=AM/PM  ▶=Save
```

**8** Press ▶ (Save key).
  • The base unit announces the day/time. The clock starts working.
  • If 6 beeps sound from the base unit, the setting is not correct. Start again from step 5.
  • To exit the programming mode, press (**OFF**).

```
MON 09:30 AM
```

• You can exit the programming mode any time by pressing (**OFF**).
• In step 6, you cannot enter numbers greater than 12. **Do not use military time.**
  (To set 13:00 hours, enter "0100", and select "PM" by pressing *.)

If a power failure occurs, the time may be shifted. When "🕐" flashes on the base unit display, reprogram the current day/time.

## To check the day/time

Repeat steps 1 to 5 on page 26.

•The base unit announces the current day/time displayed on the handset. When finished, press (**OFF**).

## For Caller ID service users (p. 37)

•The Caller ID information will reset the clock after the first ring if the adjusted time is incorrect. However, the day will not be reset by the Caller ID information. Adjust the correct day by following the steps on page 26.
•If the time has not previously been set, the Caller ID information will not adjust the clock.
•The Caller ID information will automatically adjust the clock for daylight saving time.

# Caller's Recording Time

You can select "1 minute", "2 minutes", "3 minutes" or "Greeting only" for the caller's recording time. Your phone comes from the factory set to "3 minutes".
**Make sure the unit is not being used and the handset is lifted off the base unit.**

**1** Press (**FUNCTION/2WAY REC**).

**2** Scroll to "Program" by pressing ▼ or ▲.

```
 Ringer pattern
▶Program
 --------------
```

**3** Press ▶.

```
 --------------
▶TAD program
 Set flash time
```

**4** Press ▶ at "TAD program".

```
 --------------
▶Day and time
 Remote code
```

**5** Scroll to "Recording time" by pressing ▼ or ▲.

```
 Number of ring
▶Recording time
 --------------
```

**6** Press ▶.
• The current setting is displayed.

```
Recording time
:3min
▼▲        ▶=Save
```

**7** Select the recording time by pressing ▼ or ▲.
• You can also select the recording time by pressing dialing buttons ①(1 minute), ②(2 minutes), ③(3 minutes) or ⓪(Greeting only).

**8** Press ▶ (Save key).
• A beep sounds from the base unit.
• To exit the programming mode, press (**OFF**).
• If "Greeting only" is selected, the base unit display will become blank.

```
Recording time
:Greeting only
```

• You can exit the programming mode any time by pressing (**OFF**).

If you select "Greeting only", the unit will answer a call with the greeting message, and then hang up. The unit will not record any incoming messages.

# Number of Rings

You can select the number of times the unit rings before the answering system answers a call, from "2" to "7" or "Toll saver"**\***.
Your phone comes from the factory set to "4".

**Make sure the unit is not being used and the handset is lifted off the base unit.**

**1** Press **(FUNCTION/2WAY REC)**.

**2** Scroll to "Program" by pressing ▼ or ▲.

```
  Ringer pattern
▶Program
  -------------
```

**3** Press ▶.

```
  -------------
▶TAD program
  Set flash time
```

**4** Press ▶ at "TAD program".

```
  -------------
▶Day and time
  Remote code
```

**5** Scroll to "Number of ring" by pressing ▼ or ▲.

```
  Remote code
▶Number of ring
  Recording time
```

**6** Press ▶.
• The current setting is displayed.

```
Number of rings
:4
▼▲        ▶=Save
```

**7** Select the number of rings by pressing ▼ or ▲.

• You can also select the number of rings by pressing dialing buttons ② to ⑦ or ⓪ (Toll saver**\***).

```
Number of rings
:Toll saver
▼▲        ▶=Save
```

**8** Press ▶ (Save key).
• A beep sounds from the base unit.
• To exit the programming mode, press **(OFF)**.

```
Number of rings
:Toll saver
```

• You can exit the programming mode any time by pressing **(OFF)**.
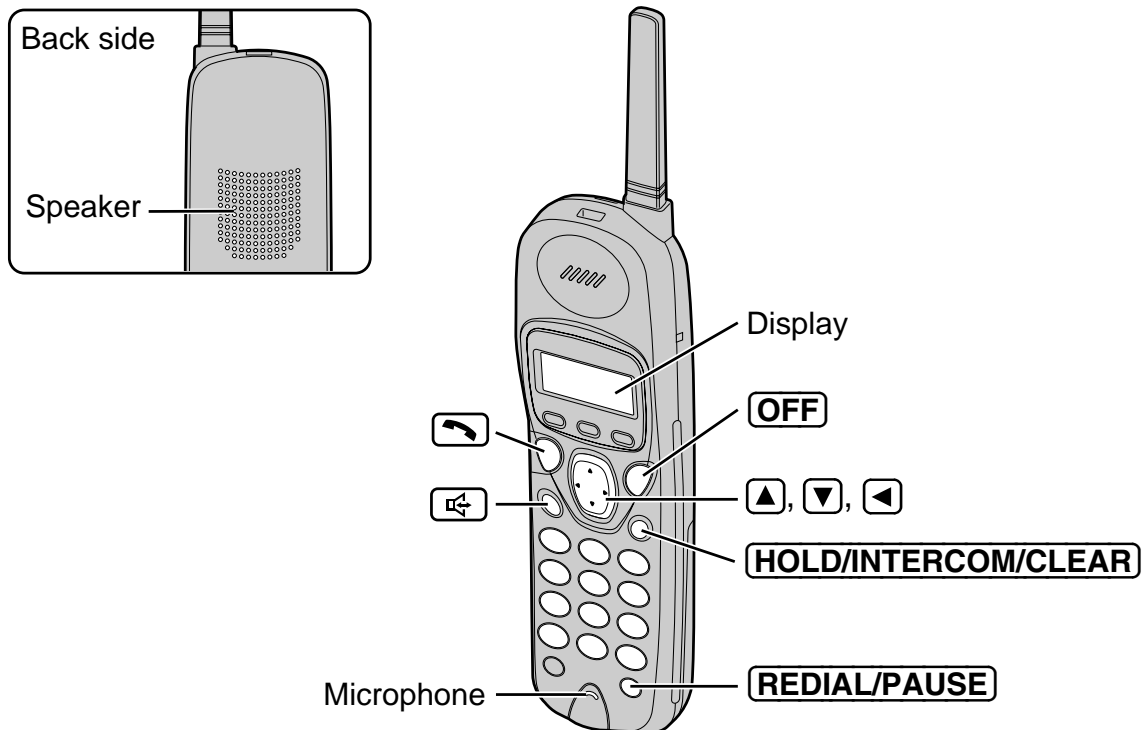
---

**\*Toll saver**
If the unit answers on the 2nd ring, there is at least one new message.
If the unit answers on the 4th ring, there are no new messages.
**Hang up when you hear the 3rd ring.** This will save you the toll charge for the call.

---

# Making Calls

## Handset

Back side

Speaker

Display

(OFF)

(▲), (▼), (◀)

HOLD/INTERCOM/CLEAR

REDIAL/PAUSE

Microphone

1 Press 📞 .

```
Talk


```

2 Dial a phone number.
  • The dialed number is displayed.
  • After a few seconds, the display will show the length of the call and the battery strength.

```
Talk

1112222
```

```
Talk


00-00-00  {▮▮▮]
```

3 To hang up, press (OFF) or place the handset on the base unit.

```
Off


00-01-08  {▮▮▮]
```

• If the handset has lost communication with the base unit, 3 beeps sound and "No link to base Place on cradle and try again." is displayed.

## To have a hands-free phone conversation
## (Using Digital Duplex Speakerphone)

**1** Press ⬚.

```
SP-phone


```

**2** Dial a phone number.
•The dialed number is displayed.
•After a few seconds, the display will show the length of the call and the battery strength.

```
SP-phone

1112222
```

```
SP-phone

00-00-00   【▮▮▮】
```

**3** When the other party answers, talk into the microphone.

**4** To hang up, press **OFF** or place the handset on the base unit.

```
Off

00-01-08   【▮▮▮】
```

•If the handset has lost communication with the base unit, 3 beeps sound and "No link to base Place on cradle and try again." is displayed.

---

**Hands-free Digital Duplex Speakerphone**

For best performance, please note the following:
•Talk alternately with the caller in a quiet room.
•If the other party has difficulty hearing you, press ▼ to decrease the speaker volume.
•If the other party's voice from the speaker cuts in/out during a conversation, press ▼ to decrease the speaker volume.
•While talking using ⬚, you can switch to the hands-free phone conversation by pressing ⬚. To switch back to the receiver, press ⬚.

---

## If noise interferes with the conversation

Press ◀ to select a clearer channel in the talk, speakerphone, intercom or remote operation mode, or move closer to the base unit.

## To redial the last number dialed on the handset

Press ⬚ or ⬚ and press **REDIAL/PAUSE**.

## To dial after confirming the entered number

**1** Dial a phone number.
- If you misdial, press
  [**HOLD/INTERCOM/CLEAR**]. One digit is
  erased. Dial the correct phone number.

```
3334444
```

**2** Press [☏].
OR
To have a hands-free phone conversation,
press [🕪], and when the other party
answers, talk into the microphone.
- After a few seconds, the display will show the
  length of the call and the battery strength.

Ex. [☏] was pressed.

```
Talk
3334444
```

```
Talk

00-00-00   [▮▮▮]
```

**3** To hang up, press [**OFF**] or place the
handset on the base unit.

## To redial using the redial list (**Memory Redial**)

The last 5 phone numbers dialed with the handset are stored in the redial
list.

**1.** Press [**REDIAL/PAUSE**].
- The last number dialed is displayed.
**2.** Scroll to the desired number by pressing [▼]
or [▲].
- You can also scroll through the list by pressing
  [**REDIAL/PAUSE**].
- To exit the list, press [**OFF**].
**3.** Press [☏] or [🕪].

```
333-4444

    ▼▲Redial list
```

- **To erase an item**, repeat steps 1 and 2, and press [**HOLD/INTERCOM/CLEAR**].
- If "No items stored" is displayed, the list is empty.

## To put a call on hold

Press [**HOLD/INTERCOM/CLEAR**].

- "Hold" is displayed.
- If you put a call on hold for more than 6 minutes,
  an alarm tone will sound. The call will be disconnected
  after a total of 10 minutes.

```
Hold

00-00-08   [▮▮▮]
```

## To release the hold

From the handset, lift the handset, or press [☏] or [🕪].
From the base unit, press [**SP-PHONE**].

- If another phone is connected on the same line (p. 78), you can also release the
  hold by lifting its handset.

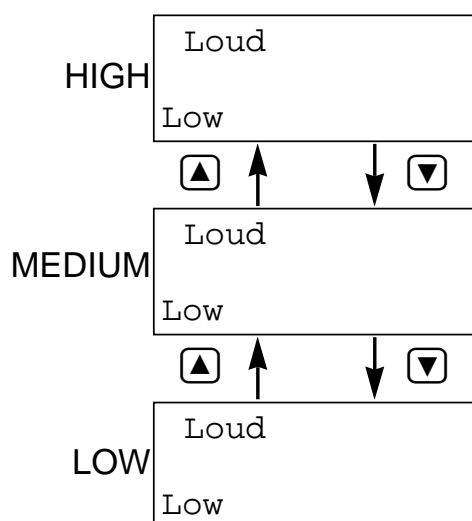## To adjust the receiver volume (HIGH, MEDIUM or LOW) or speaker volume (6 levels) while talking

To increase, press ▲.
To decrease, press ▼.

•The display will return to the length of the call.

### While using 📞

•Each time you press ▼ or ▲, the volume level will change among 3 levels (HIGH, MEDIUM or LOW). Your phone comes from the factory set to level MEDIUM.
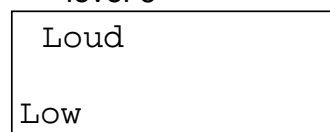
HIGH
```
Loud


Low
```
▲ ↑    ↓ ▼

MEDIUM
```
Loud


Low
```
▲ ↑    ↓ ▼

LOW
```
Loud


Low
```

### While using 🔊

•Each time you press ▼ or ▲, the volume level will change among 6 levels. Your phone comes from the factory set to level 3.

Ex. Speaker volume:
     level 6
```
Loud


Low
```

•When you replace the battery, the selected receiver/speaker volume setting will return to the factory set. Reprogram if necessary.

## Lighted handset keypad

The handset dialing buttons will light when you press a button or lift the handset off the base unit. They flash when a call is received with the handset off the base unit.
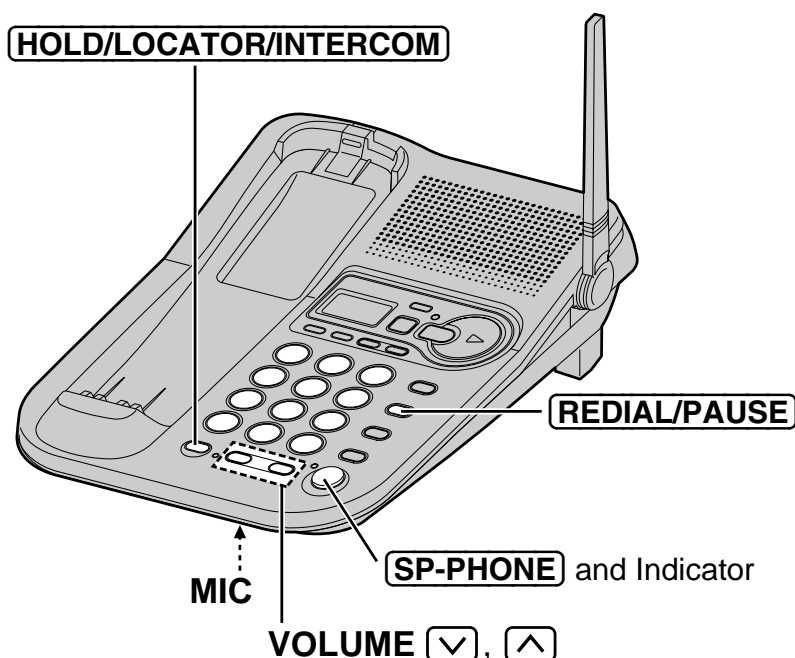The lights will go out a few seconds after pressing a button, lifting the handset, answering a call, hanging up a call, leaving the programming mode or ending the intercom.

## Backlit LCD display

The lighted handset display will stay on for a few seconds after pressing a handset button, lifting the handset off the base unit, hanging up a call, leaving the programming mode or ending the intercom.

## Base Unit (Digital Duplex Speakerphone)

HOLD/LOCATOR/INTERCOM

REDIAL/PAUSE

SP-PHONE and Indicator

MIC

VOLUME ⌄, ⌃

1 Press SP-PHONE.
•The SP-PHONE indicator lights.

2 Dial a phone number.

3 When the other party answers, talk into the **MIC** (microphone).

4 To hang up, press SP-PHONE.
•The indicator light goes out.

•To switch to the handset while using the base unit speakerphone:
 —If the handset is off the base unit, press 🔽 or 🔘.
 —If on the base unit, just lift up.
•During a call using the handset, the call can be switched to the base unit by
 pressing SP-PHONE on the base unit.

**Hands-free Digital Duplex Speakerphone**
For best performance, please note the following:
•Talk alternately with the caller in a quiet room.
•If the other party has difficulty hearing you, press **VOLUME** $\boxed{\vee}$ to decrease the speaker volume.
•If the other party's voice from the speaker cuts in/out during a conversation, press **VOLUME** $\boxed{\vee}$ to decrease the speaker volume.

## To adjust the speaker volume (8 levels) while talking

To increase, press **VOLUME** $\boxed{\wedge}$ .
To decrease, press **VOLUME** $\boxed{\vee}$ .

## To redial the last number dialed on the base unit

Press (**SP-PHONE**) and press (**REDIAL/PAUSE**).

## To put a call on hold

Press (**HOLD/LOCATOR/INTERCOM**).

•The SP-PHONE indicator flashes.
•If you put a call on hold for more than 6 minutes, an alarm tone will sound. The call will be disconnected after a total of 10 minutes.

## To release the hold

From the base unit, press (**SP-PHONE**).

From the handset, press $\boxed{\searrow}$ or $\boxed{\phantom{x}}$ , or lift the handset off the base unit.

•If another phone is connected on the same line (p. 78), you can also release the hold by lifting its handset.

*Cordless Telephone*

# Answering Calls

When a call is received, the unit rings and "`Incoming call`" is displayed and the IN USE/CHARGE indicator on the base unit flashes. If you subscribe to a Caller ID service, the calling party information will be displayed after the first ring (p. 37).
In order to view the Caller ID information, please wait until the second ring to answer a call.
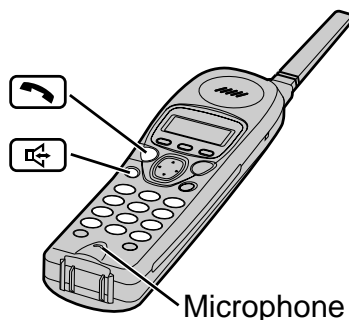
## Handset

If the handset is off the base unit;

Press [↖].

• You can also answer a call by pressing any dialing button [0] to [9], [*] or [#] (—**Any Key Talk**).

OR

Press [🔊], and when the other party answers, talk into the microphone.

Microphone

• You can select the ringer volume while a call is being received. Press [▼] or [▲] while the handset is just ringing. To set to OFF, press and hold [▼].

### Auto Talk

If you set the Auto Talk feature to ON (p. 19), you can answer a call by lifting the handset off the base unit without pressing [↖] or [🔊].

IN USE/CHARGE Indicator

## Base Unit

1    Press [SP-PHONE].
    • The SP-PHONE indicator lights.

2    Talk into the **MIC**.

3    To hang up, press [SP-PHONE].
    • The indicator light goes out.

**MIC** [SP-PHONE] and Indicator

• You can select the ringer volume while a call is being received. Press [MUTE/RINGER] while the base unit is just ringing. To set to OFF, press and hold [MUTE/RINGER].

• When the handset and base unit ringer volumes are set to OFF, they will not ring (p. 20).

*36*

# Caller ID Service

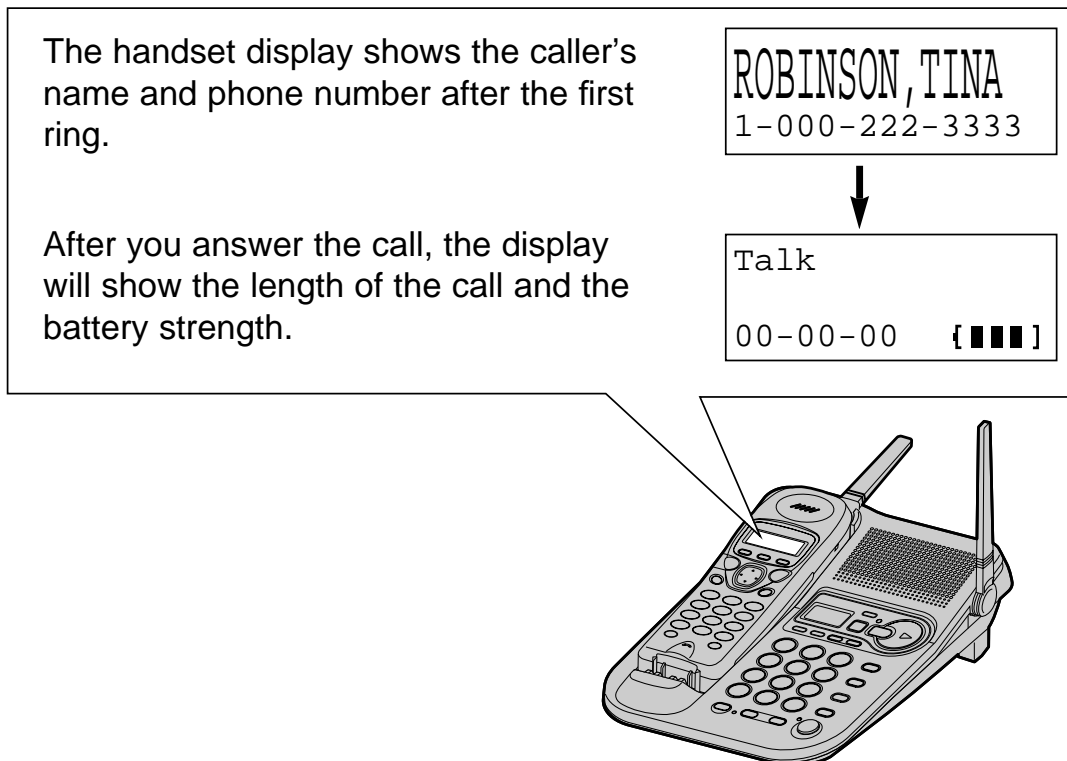This unit is compatible with a Caller ID service offered by your telephone company. If you subscribe to a Caller ID service, the calling party's information will be shown on the handset after the first ring.

The unit can record information of up to 30 different callers, including the time and date received and the number of times called, in the Caller List. The Caller List information is sorted by the most recent to the oldest call. When the 31st call is received, the first call is deleted.

Using the list, you can automatically call back a caller. You can store the callers' names and numbers from the Caller List into the directory.

If you subscribe to both Caller ID and Call Waiting services, when a second call is received while talking, the new caller's name and phone number will be displayed (p. 58).

## How caller information is displayed when a call is received

The handset display shows the caller's name and phone number after the first ring.

```
ROBINSON,TINA
1-000-222-3333
```

After you answer the call, the display will show the length of the call and the battery strength.

```
Talk

00-00-00    [■■■]
```

•Caller information cannot be displayed in the following cases:
  —If the caller dialed from an area which does not provide a Caller ID service, the display will show "Out of area".
  —If the caller has requested not to display his/her information, the display will show "Private caller".
•If your unit is connected to a PBX which does not support Caller ID services, you cannot access those services.
•The name display service may not be available in some areas. For further information, please contact your telephone company.

# Using the Caller List

If you have received new calls, "Received calls" will be displayed while the unit is not in use.

Handset on the base unit

```
┌─────────────────────┐
│ Received calls      │
│             {▮▮▮]    │
└─────────────────────┘
```

Handset off the base unit

```
┌─────────────────────┐
│ Received calls▼     │
│             {▮▮▮]    │
└─────────────────────┘
```
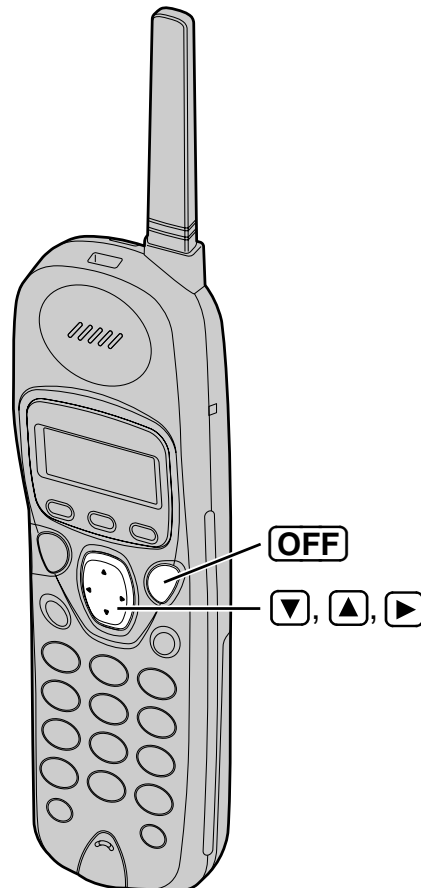
## Viewing the Caller List

To check who has called, follow the steps below.
**Make sure the unit is not being used and the handset is lifted off the base unit.**

1 Press ▼ or ▲ to enter the Caller List.

•The display will show, for example, the following.

```
┌─────────────────────┐
│     2 new calls     │
│ ▼▲   ▶=Directory    │
└─────────────────────┘
```
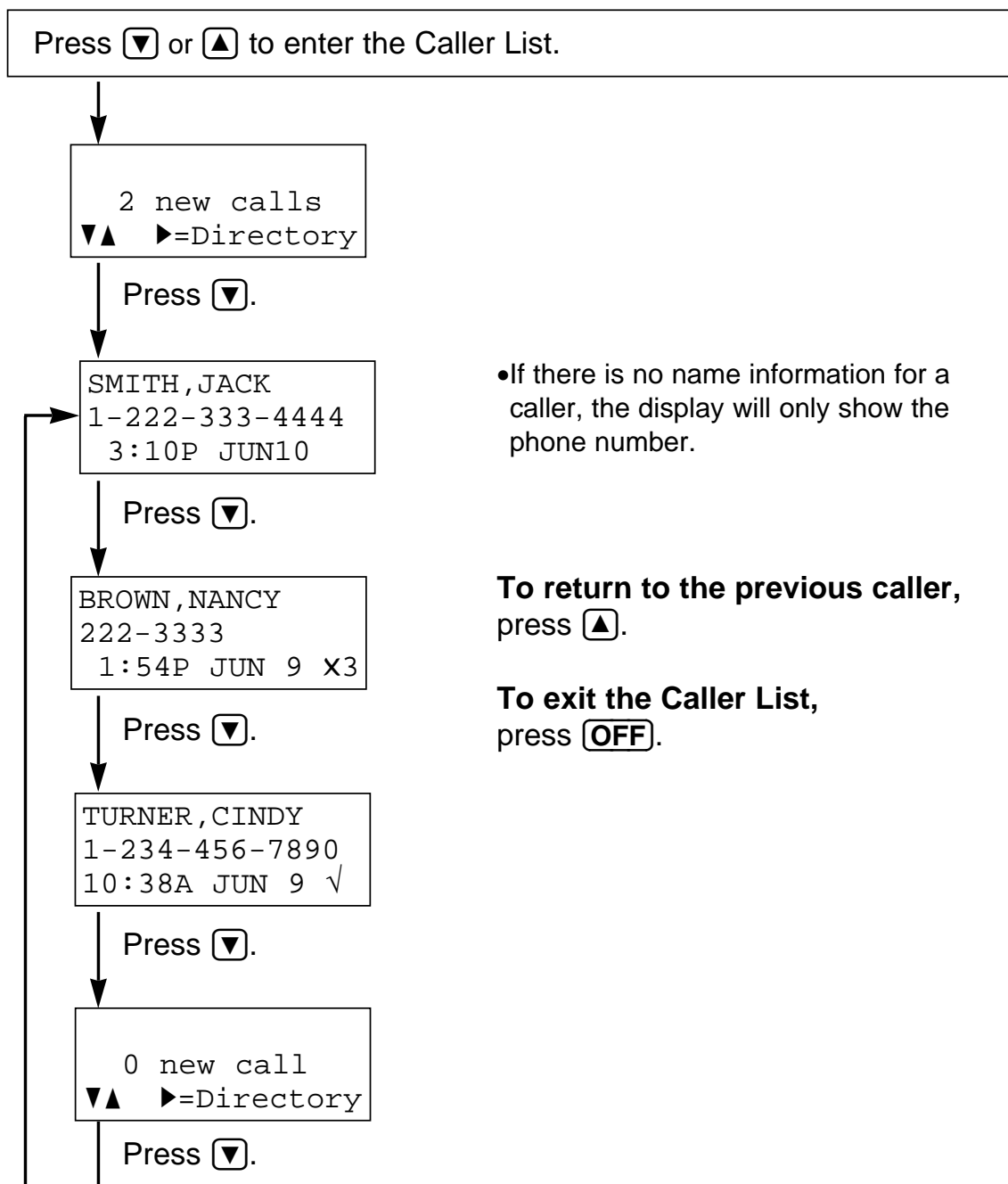
•You can go to the directory list by pressing ▶ (p. 51).

2 To search from the most recent call, press ▼.
To search from the oldest call, press ▲.

•To scroll between callers, press ▼ or ▲.

3 To exit the list, press (OFF).

(OFF)

▼, ▲, ▶

•Once new calls have been checked, "√" will be added.
•If "No items stored" is displayed in step 1, the Caller List is empty.
•If more than one call is received from the same caller, the date and time of the most recent call will be recorded. If the same caller calls again, the call entry with "√" will be deleted.
•If you do not press any buttons for 60 seconds, the unit will exit the Caller List.
•After viewing all of the new call entries, "Received calls" will disappear.

## Ex. When you search from the most recent call:

Press ▼ or ▲ to enter the Caller List.

```
   2 new calls
▼▲   ▶=Directory
```

Press ▼.

```
SMITH,JACK
1-222-333-4444
 3:10P JUN10
```

Press ▼.

```
BROWN,NANCY
222-3333
 1:54P JUN 9 X3
```

Press ▼.

```
TURNER,CINDY
1-234-456-7890
10:38A JUN 9 √
```

Press ▼.

```
   0 new call
▼▲   ▶=Directory
```

Press ▼.

•If there is no name information for a caller, the display will only show the phone number.

**To return to the previous caller,** press ▲.

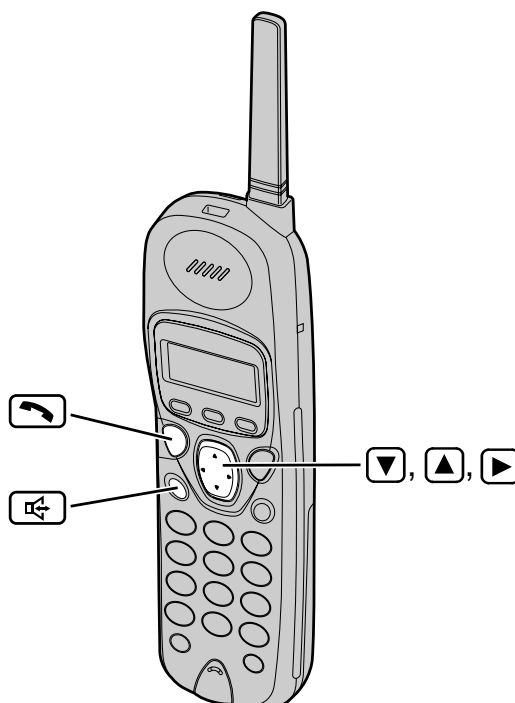**To exit the Caller List,** press (OFF).

*Cordless Telephone*

**Display meaning:**

√　　: You have checked this caller information, answered the call, called back the caller or played back the message.

X2-X9 : The number of times the same caller called (up to 9). After checking, "X2" – "X9" will be replaced with "√".

# Calling Back from the Caller List

1 Press ▼ or ▲ to enter the Caller List.

```
   3 new calls
▼▲  ▶=Directory
```

2 Scroll to the desired caller by pressing ▼ or ▲.

```
TURNER,CINDY
1-234-456-7890
11:20A JAN12 X3
```

3 Press ➘ or 🔊.
•The displayed phone number is dialed automatically.

Ex. ➘ was pressed.

```
Talk
12344567890
```

•In some cases, you may have to edit the number before dialing (p. 41).
 (Ex. You may have to delete "1" and the area code.)
•If a phone number is not displayed in the caller information, you cannot call back that caller.

# Editing the Caller's Phone Number

You can edit a phone number into one of 3 patterns (see below ⓐ, ⓑ, and ⓒ on this page) to call back or store it into the directory.

> **The Caller ID Number Auto Edit Feature** (p. 42)
> This feature will allow the unit to edit a Caller ID number into one of 3 patterns you desired for you automatically in the Caller List. For detail and activation please see page 42.

**Make sure the unit is not being used and the handset is lifted off the base unit.**

1 Press ▼ or ▲ to enter the Caller List.

```
   5 new calls
▼▲   ▶=Directory
```

2 Scroll to the desired caller by pressing ▼ or ▲, and press ▶.

```
PARKER,FRED
1-234-321-5555
11:20A JAN12 √
```

```
▶Edit
  Save directory
▼▲           ▶=Yes
```

3 Press ▶ (Yes key) at "Edit".

```
PARKER,FRED
1-234-321-5555
▼=Next    ▶=Edit
```

4 Press ▶ (Edit key) to select a pattern.

•Each time you press ▶, the number is rearranged into one of 3 patterns.

ⓐ | Phone no. |(7 digit pattern)

ⓑ | Area code |−| Phone no. |(10 digit pattern)

ⓒ1−| Area code |−| Phone no. |(11 digit pattern)

•The order in which patterns ⓐ–ⓒ are displayed depends on how the telephone number is displayed in step 3.

ⓐ
```
321-5555
▼=Next    ▶=Edit
```

ⓑ
```
234-321-5555
▼=Next    ▶=Edit
```

ⓒ
```
1-234-321-5555
▼=Next    ▶=Edit
```

5 After editing the number, you can continue with calling back or storing procedures.
To call back, press 🔽 or 🔛 (p. 40).
To store the number in the directory, press ▼ (Next key). Follow the instructions on the display (p. 43). (If the caller has no name information, see page 43, from step 3.)

*Cordless Telephone*

# The Caller ID Number Auto Edit Feature

There are 3 patterns of phone number (ⓐ, ⓑ, and ⓒ, p. 41). This feature allows your phone to automatically edit an in-coming Caller ID number into one pattern you preferred, and display the Caller ID number with that pattern on the handset automatically.

After this feature is activated, Caller ID numbers coming from considered area codes (201, for example), from which the Caller ID numbers have been chosen to follow the desired pattern (7 digit pattern, for example), will be automatically edited from other patterns (11 digit pattern, for example) into the same pattern you have previously selected (which is 7 digit pattern, in the example).

Up to 4 area codes are allowed for this feature for pattern ⓐ and ⓑ (p. 41).

To activate this feature, you must 1) set this feature to on, and 2) make an out-going call from Caller List (p. 40) with a number which has one of 3 patterns that you have edited with considered area code, and that you prefer to be followed by future Caller ID numbers, so that in the future all the Caller ID numbers coming from the same area code will be displayed in the same pattern.

The Caller ID number Auto Edit feature is preset to ON at factory.

•If you fail to reach your destination when making the call, the phone number you dialed might have an incorrect pattern, please edit the phone number with another pattern (p. 41).

For example, if you move to another area, you may need to turn this feature to OFF to erase previously edited area codes. Then, if still need, you may activate this feature again.

**Make sure the unit is not being used and the handset is lifted off the base unit.**

**1.** Press ⌈**FUNCTION/2WAY REC**⌋.

**2.** Scroll to "`Program`" by pressing ▼ or ▲ and press ▶.

```
  Ringer pattern
▶Program
  -------------
```

**3.** Scroll to "`CallerID edit`" by pressing ▼ or ▲.

**4.** Press ▶.

```
  Talk switching
▶CallerID edit
  LCD contrast
```

**5.** Select "`On`" or "`Off`" by pressing ▼ or ▲.

**6.** Press ▶ (`Save` key).
   •A beep sounds.
   •To exit the programming mode, press ⌈**OFF**⌋.

•When the feature is set to OFF, the unit will still be able to display Caller ID, like regular Caller ID telephone, but the in-coming Caller ID number will not be edited by pattern and by area codes.

# Storing Caller List Information in the Directory

You can store phone numbers that are in the Caller List into the directory. **Make sure the unit is not being used and the handset is lifted off the base unit.**

**1** Press ▼ or ▲ to enter the Caller List.

```
 10 new calls
▼▲   ▶=Directory
```

**2** Scroll to the caller you want to store in the directory by pressing ▼ or ▲, and press ▶.
  •If the number requires editing, see page 41.

```
TURNER,CINDY
1-234-456-7890
11:20A JAN12 X3
```

```
▶Edit
 Save directory
▼▲         ▶=Yes
```

**3** Scroll to "Save directory" by pressing ▼ or ▲, and press ▶.
  •A beep sounds.
  •To continue storing other items, repeat from step 2.
  •To exit the programming mode, press OFF.

```
 Edit
▶Save directory
▼▲         ▶=Yes
```

```
TURNER,CINDY
1-234-456-7890
```

**If there is no name information for the caller, "Enter name" will be displayed.**

  a) If a name is not required, press ▼ (Next key) and press ▶ (Save key).
  b) If a name is required, enter the name (p. 49). When finished, press ▼ (Next key) and press ▶ (Save key).

  •A beep sounds.
  •To continue storing other items, repeat from step 2.
  •To exit the programming mode, press OFF.

```
Enter name
▮
◀▶         ▼=Next
```

```
Enter name
CINDY TURNER
◀▶         ▼=Next
```

```
CINDY TURNER
1-234-456-7890
```

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•You can exit the programming mode any time by pressing OFF.
•If the display shows "Directory full" in step 3, press OFF to exit the list. To erase other stored items from the directory, see page 54.
•You cannot store caller information in the directory if a phone number is not displayed.
•If an alarm tone sounds in step 3, the item cannot be stored in the directory. Place the handset on the base unit and try again from step 1.

# Erasing Caller List Information

After checking the Caller List, you can erase some or all of the entries.
**Make sure the unit is not being used and the handset is lifted off the base unit.**

## To erase a specific caller from the Caller List

**1** Press ▼ or ▲ to enter the Caller List.

```
 10 new calls
▼▲   ▶=Directory
```

**2** Scroll to the caller you want to erase from the Caller List by pressing ▼ or ▲.

```
REAGAN,TOM
1-888-777-6666
12:20A JAN12 √
```

**3** Press (**HOLD/INTERCOM/CLEAR**).
•A beep sounds and the information is erased.
•To erase other items, repeat from step 2.
•To exit the Caller List, press (**OFF**).

```
     Clear
```

## To erase all entries in the Caller List

Before erasing all entries, make sure that "`0 new call`" is displayed.

**1** Press ▼ or ▲ to enter the Caller List.

```
  0 new call
▼▲   ▶=Directory
```

**2** Press (**HOLD/INTERCOM/CLEAR**).

```
▶Exit
 All clear
▼▲          ▶=Yes
```

**3** Select "`All clear`" by pressing ▼ or ▲.

```
 Exit
▶All clear
▼▲          ▶=Yes
```

**4** Press ▶ (`Yes` key) or
(**HOLD/INTERCOM/CLEAR**).
•A beep sounds and all entries are erased.
•The handset will exit the Caller List.

```
   All clear
```

# Speed Dialer ➡

## Storing Phone Numbers

You can store up to 10 phone numbers in the base unit. The dialing buttons ([0] to [9]) function as memory stations.
**Make sure the unit is not being used.**

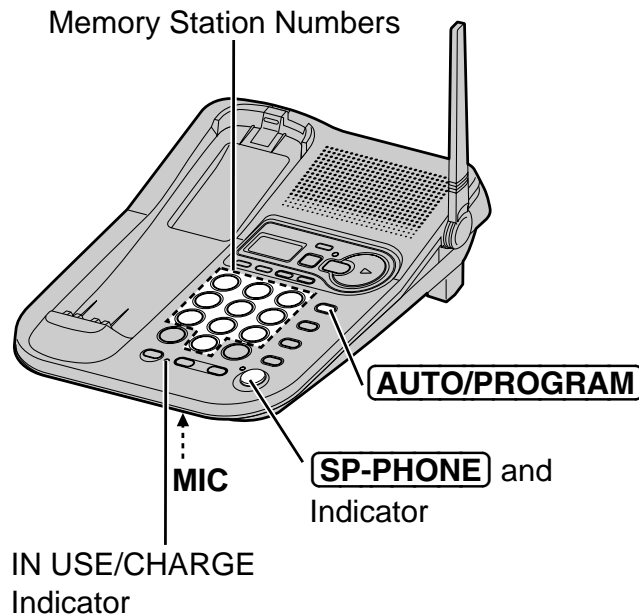1 Press [AUTO/PROGRAM].
  •The IN USE/CHARGE indicator flashes.

2 Enter a phone number up to 22 digits.
  •If you misdial, press [AUTO/PROGRAM] twice to end storing, and start again from step 1.

3 Press [AUTO/PROGRAM].

4 Press a memory station number ([0] to [9]).
  •A beep sounds.
  •To store other numbers, repeat steps 1 through 4.

Memory Station Numbers

[AUTO/PROGRAM]

MIC

[SP-PHONE] and Indicator

IN USE/CHARGE Indicator

•If a pause is required for dialing, press [REDIAL/PAUSE] where needed. Pressing [REDIAL/PAUSE] counts as one digit (p. 58).

### To erase a stored number

Press [AUTO/PROGRAM] twice and then, press the memory station number ([0] to [9]) for the phone number to be erased.

# Dialing a Stored Number

1   Press (SP-PHONE).
    •The SP-PHONE indicator lights.


2   Press (AUTO/PROGRAM).


3   Press a memory station number ((0) to (9)).
    •The stored number is dialed.

•Numbers stored in the base unit can only be dialed from the base unit.

# Directory →

You can store up to 50 names and phone numbers in the directory using the handset. All directory items are sorted by the first word in alphabetical order. Using the directory, you can make a call by selecting a name on the handset display.

## Storing Names and Numbers

**Make sure the unit is not being used and the handset is lifted off the base unit.**

FUNCTION/2WAY REC

OFF

▼, ▲, ◄, ►

The dialing buttons can be used to enter letters and symbols.

HOLD/INTERCOM/CLEAR

**1** Press (FUNCTION/2WAY REC).

```
--------------
▶Save directory
 Ringer volume
```

**2** Press ▶ at "Save directory".
- The display shows the number of stored items in the directory.

```
Directory=
  20 items
```

**3** Enter a name, up to 15 characters with the dialing buttons, ◀ or ▶.
- See the steps for entering names and symbols (p. 49).
- If a name is not required, press ▼ (Next key) and go to step 5.

```
Enter name
■
◀▶          ▼=Next
```

```
Enter name
Tom Jones■
◀▶          ▼=Next
```

**4** Press ▼ (Next key).

```
Enter phone no.


```

**5** Enter a phone number, up to 22 digits.
- Each time you press (HOLD/INTERCOM/CLEAR), a digit is erased. To erase all of the digits, press and hold (HOLD/INTERCOM/CLEAR).

```
0987654321■

◀▶          ▼=Next
```

**6** Press ▼ (Next key).
- If you want to change the storing name or number, press ▲ (Edit key) repeatedly to reach the desired display and change it.

```
Tom Jones
098-765-4321
▲=Edit    ▶=Save
```

**7** Press ▶ (Save key).
- A beep sounds.
- To continue storing other items, repeat from step 2.
- To exit the programming mode, press (OFF).

```
Tom Jones
098-765-4321

```

- If a pause is required for dialing, (REDIAL/PAUSE) can be stored in a phone number counting as one digit (p. 58) in step 5.
- You can exit the programming mode any time by pressing (OFF).
- If the display shows "Directory full" in step 2, the display will return to step 1, press (OFF) to exit the programming mode. To erase other stored items from the directory, see page 54.
- If an alarm tone sounds in step 7, the item cannot be stored in the directory. Place the handset on the base unit and try again from step 1.

# Entering Names and Symbols

The handset dialing buttons ([0] to [9]), [◄] and [►] can be used to enter letters and symbols. The letters are printed on the dialing buttons. Pressing each button selects a character as shown below.

| Keys | \multicolumn Number of times key is pressed | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| [1] | # | & | ' | ( | ) | ∗ | , | – | . | / | 1 |
| [2] | a | b | c | A | B | C | 2 | | | | |
| [3] | d | e | f | D | E | F | 3 | | | | |
| [4] | g | h | i | G | H | I | 4 | | | | |
| [5] | j | k | l | J | K | L | 5 | | | | |
| [6] | m | n | o | M | N | O | 6 | | | | |
| [7] | p | q | r | s | P | Q | R | S | 7 | | |
| [8] | t | u | v | T | U | V | 8 | | | | |
| [9] | w | x | y | z | W | X | Y | Z | 9 | | |
| [0] | 0 | Blank | | | | | | | | | |
| [◄] | To move the cursor to the left | | | | | | | | | | |
| [►] | To move the cursor to the right | | | | | | | | | | |

- To enter another character using the same dialing button, press [►] to move the cursor to the next space.

## If you make a mistake while entering a name

Use [◄] or [►] to move the cursor to the incorrect character, press (**HOLD/INTERCOM/CLEAR**) to delete and enter the correct character. Each time you press (**HOLD/INTERCOM/CLEAR**), a character is erased. To erase all characters, press and hold (**HOLD/INTERCOM/CLEAR**).

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## For example, to enter "Tom Jones":

**1** Press ⌈FUNCTION/2WAY REC⌋.

```
 --------------
▸Save directory
 Ringer volume
```

**2** Press ▶ at "Save directory".

```
Directory=
  20 items
```

```
Enter name
█
◀▶         ▼=Next
```

**3** Press ⌈8⌋ four times.

```
T
```

**4** Press ⌈6⌋ three times, then press ▶ to move the cursor to the right.

```
To█
```

**5** Press ⌈6⌋.

```
Tom
```

**6** Press ▶ twice to enter a blank.

```
Tom █
```

**7** Press ⌈5⌋ four times.

```
Tom J
```

**8** Press ⌈6⌋ three times, then press ▶ to move the cursor to the right.

```
Tom Jo█
```

**9** Press ⌈6⌋ twice.

```
Tom Jon
```

**10** Press ⌈3⌋ twice.

```
Tom Jone
```

**11** Press ⌈7⌋ four times.

```
Enter name
Tom Jones█
◀▶         ▼=Next
```

**12** When finished, press ▼ (Next key).
•Follow steps 5 to 7 on page 48 to complete the operation.

```
Enter phone no.
```

•While entering names, the cursor will flash on the display.

# Finding Stored Items

You can search the directory using the handset.
**Make sure the unit is not being used and the handset is lifted off the base unit.**

**1** Press ◄ or ► to enter the directory list.

```
Directory list
▼▲
▶=Caller's list
```

• You can go to the Caller List by pressing ► (p. 39).

▲,▼,◄,►  (OFF)

**2** Press ▼ or ▲.
• The first item is displayed.

```
Ann
123-456-7890
```

**3** Scroll to the desired item by pressing ▼ or ▲.

• All directory items are stored in the order shown on the right.

**To search for a name by initial**

① Press the dialing button for the first letter of the desired name until any name with the same initial is displayed (see the Index table on the page 52).
Ex. To find "Frank", press ③ repeatedly until the first item under "F" is displayed.

② Press ▼ repeatedly until the name is displayed.

Press ▼.　　　　　Press ▲.

Alphabet letter

Symbol (excluding # and ✱)

Number

# and ✱

Telephone number
(If no name is stored)

• You can exit the directory list any time by pressing (OFF).
• If "No items stored" is displayed in step 2, the directory list is empty.

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## Index table

| Keys | Index | Keys | Index |
|---|---|---|---|
| 1 | Other symbols, 1 | 6 | M, N, O, 6 |
| 2 | A, B, C, 2 | 7 | P, Q, R, S, 7 |
| 3 | D, E, F, 3 | 8 | T, U, V, 8 |
| 4 | G, H, I, 4 | 9 | W, X, Y, Z, 9 |
| 5 | J, K, L, 5 | 0 | 0 |

# Dialing

**Make sure the unit is not being used and the handset is lifted off the base unit.**

1 Press ◀ or ▶ to enter the directory list.

```
Directory list
▼▲
▶=Caller's list
```

2 Press ▼ or ▲.
•The first item is displayed.

3 Scroll to the desired item that you want to dial by pressing ▼ or ▲.

•To search for the item by initial, see page 51.
•To exit the directory list, press OFF.

```
Frank
456-7890
```

4 Press 🞃 or 🞂.
•The number is dialed automatically.

Ex. 🞃 was pressed.

```
Talk
4567890
```

5 To hang up, press OFF or place the handset on the base unit.

•You can exit the directory list any time by pressing OFF.

# Editing

**Make sure the unit is not being used and the handset is lifted off the base unit.**

**1** Press ◄ or ► to enter the directory list.

**2** Press ▼ or ▲.
- The first item is displayed.

**3** Scroll to the directory item you want to change by pressing ▼ or ▲, and press ►.
- To search for the item by initial, see page 51.
- If you do not need to change the name, go to step 5.

```
Jane
456-7890
```

```
Enter name
Jane
◄►          ▼=Next
```

**4** Edit the name using the dialing buttons, ◄ or ► (p. 49), up to 15 characters.

```
Enter name
Jane Walker
◄►          ▼=Next
```

**5** Press ▼ (Next key).

```
4567890

◄►          ▼=Next
```

**6** Add a number to the current number.
- If you do not need to change the number, press ▼ (Next key) and go to step 8.
- Each time you press **HOLD/INTERCOM/CLEAR**, a digit is erased. To erase all digits, press and hold **HOLD/INTERCOM/CLEAR**.

```
12344567890

◄►          ▼=Next
```

**7** Press ▼ (Next key).
- If you want to change the storing name or number, press ▲ (Edit key) repeatedly to reach the desired display and change it.

```
Jane Walker
1-234-456-7890
▲=Edit     ►=Save
```

**8** When finished, press ► (Save key).
- A beep sounds.
- To continue editing other items, repeat from step 3.
- To exit the directory list, press **OFF**.

```
Jane Walker
1-234-456-7890
```

- You can exit the edit mode any time by pressing **OFF**.

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# Erasing

**Make sure the unit is not being used and the handset is lifted off the base unit.**

1 Press ◄ or ► to enter the directory list.

2 Press ▼ or ▲.
•The first item is displayed.

3 Scroll to the directory item that you want to erase by pressing ▼ or ▲.

•To search for the item by initial, see page 51.

```
Helen
1-234-567-8901
```

4 Press **HOLD/INTERCOM/CLEAR**.
•To stop erasing, press ◄ (No key).

```
Clear?

◄=No        ►=Yes
```

5 Press ► (Yes key) or **HOLD/INTERCOM/CLEAR**.

•A beep sounds and the item is erased.
•To erase other items, repeat from step 3.
•To exit the programming mode, press **OFF**.

```
        Clear
```

•You can exit the programming mode any time by pressing **OFF**.

# Intercom

A 2-way intercom is possible between the handset and the base unit.

## Paging the base unit from the handset

1 Handset:
Press
[HOLD/INTERCOM/CLEAR].
Talk to the paged party after
the beeps.

•"Intercom" is displayed.

2 Base unit:
When the other party's
voice is heard, answer
using the **MIC**.

3 To end the intercom,
press [OFF] on the
handset.
OR
Press [HOLD/LOCATOR/INTERCOM] on the base unit.

[OFF]

**MIC**

[HOLD/LOCATOR/INTERCOM]

[HOLD/INTERCOM/CLEAR]

## Paging the handset from the base unit (Handset locator)

Using this feature, you can also locate a misplaced handset.

1 Base unit:
Press [HOLD/LOCATOR/INTERCOM].

•The handset beeps for 1 minute
and displays "Paging Press
INTERCOM".
•To stop paging, press
[HOLD/LOCATOR/INTERCOM]
on the base unit.

2 Handset:
Press
[HOLD/INTERCOM/CLEAR] to
answer.

•"Intercom" is displayed.

3 Base unit:
Talk into the **MIC**.

**MIC** [OFF]

[HOLD/LOCATOR/INTERCOM]

[HOLD/INTERCOM/CLEAR]

4 To end the intercom, press [OFF] on the handset.
OR
Press [HOLD/LOCATOR/INTERCOM] on the base unit.

•If you do not want to answer the page in step 2, press [OFF] to stop beeping.

---

**During an intercom call:**
• If the handset user has difficulty hearing the base unit user, decrease the base unit speaker volume by pressing **VOLUME** $\boxed{\vee}$ .
• If an incoming call is received, the intercom call stops and the unit starts to ring. To answer, press $\boxed{\searrow}$ , $\boxed{\text{🕼}}$ or $\boxed{\text{SP-PHONE}}$ .

# Transferring a Call Using the Intercom

The intercom can be used during a call. This feature enables you to transfer a call between the handset and the base unit.

## From the handset to the base unit

**1** Handset:
During a call, press
$\boxed{\text{HOLD/INTERCOM/CLEAR}}$ .

• The call is put on hold and "Hold" is displayed.

**2** Handset:
Press
$\boxed{\text{HOLD/INTERCOM/CLEAR}}$
again. Talk to the paged party after the beeps.

• "Intercom hold" is displayed.
• If the base unit user does not answer, press $\boxed{\searrow}$ or $\boxed{\text{🕼}}$ to return to call.

**3** Base unit:
When the paging party's voice is heard, answer using the **MIC**.

**4** Base unit:
To answer the call, press
$\boxed{\text{SP-PHONE}}$ .

• The transfer is complete.

## From the base unit to the handset

**1** Base unit:
During a call, press
$\boxed{\text{HOLD/LOCATOR/INTERCOM}}$ .

• The call is put on hold and SP-PHONE indicator flashes.

**2** Base unit:
Press
$\boxed{\text{HOLD/LOCATOR/INTERCOM}}$
again.

• "Paging Press INTERCOM" is displayed on the handset.
• If the handset user does not answer, press $\boxed{\text{SP-PHONE}}$ to return to call.

**3** Handset:
Press
$\boxed{\text{HOLD/INTERCOM/CLEAR}}$ to answer the page.

• "Intercom hold" is displayed.

**4** Handset:
To answer the call, press
$\boxed{\searrow}$ or $\boxed{\text{🕼}}$ .

• The transfer is complete.

# Special Features ➡



FUNCTION/2WAY REC

MUTE

OFF

▲, ▼, ▶

TONE

FLASH/CALL WAIT/PLAYBACK    REDIAL/PAUSE

TONE    MUTE/RINGER

REDIAL/PAUSE

FLASH/CALL WAIT

## Automatic Security Code Setting

Each time you place the handset on the base unit, the unit automatically selects one of more than a million security codes. These codes help prevent the unauthorized use of your telephone line by another cordless telephone user.

## Temporary Tone Dialing
### (For Rotary or Pulse Service Users)

Press [TONE] before entering access numbers which require tone dialing.

•The dialing mode changes to tone. You can enter numbers to access an answering service, electronic banking service, etc. When you hang up, the mode will return to pulse.

## Muting Your Conversation

Handset:

Press [MUTE] while talking.

•The display on the right will be shown.

Base unit:

Press [MUTE/RINGER] while talking.

•The SP-PHONE indicator flashes.

Ex. [MUTE] was pressed.

```
Talk


<Mute>        {▮▮▮]
```

•The other party cannot hear your voice but you can hear theirs.
•**To release the mute**, press [MUTE], [📞] or [🔊] on the handset or [MUTE/RINGER] or [SP-PHONE] on the base unit.

# For Call Waiting Service Users

Press (**FLASH/CALL WAIT/PLAYBACK**) or (**FLASH/CALL WAIT**) if you hear
a call-waiting tone while talking.

• The first call is put on hold and you can answer the second call.
• To return to the first caller, press (**FLASH/CALL WAIT/PLAYBACK**) or
(**FLASH/CALL WAIT**) again.
• The call waiting service cannot be used when:
 —the answering system is recording someone's message, or
 —a parallel connected telephone is in use.
• If this function does not operate properly, consult your telephone company for
 details.

## Call Waiting Caller ID Feature

Call Waiting Caller ID Feature allows your
handset to display the second caller's
information. After you hear a call-waiting tone
while talking, the handset will display the caller's
name with the phone number and
"----Waiting----".

```
BROWN,NANCY
1-555-666-7777
----Waiting----
```

• Please contact your telephone company for details and availability in your area.
• While talking with the base unit, the handset off the base unit will not display the
 caller's information.

# How to Use the PAUSE Button
## (For Analog PBX Line/Long Distance Service Users)

We recommend you press (**REDIAL/PAUSE**) if a pause is required for
dialing with a PBX or to access a long distance service.
Ex.  Line access number ⑨ (PBX)

⑨ ➡ (**REDIAL/PAUSE**) ➡ | Phone number |

• Pressing (**REDIAL/PAUSE**) once creates a 3.5 second pause. This prevents
 misdialing when you redial or dial a stored number.
• Pressing (**REDIAL/PAUSE**) more than once increases the length of the pause
 between numbers.

# FLASH Button

Pressing (**FLASH/CALL WAIT/PLAYBACK**) or (**FLASH/CALL WAIT**) allows you to use special features of your host PBX such as transferring an extension call or accessing special telephone services (optional) such as call waiting.

•Pressing (**FLASH/CALL WAIT/PLAYBACK**) or (**FLASH/CALL WAIT**) causes to release following operations:
  —temporary tone dialing,
  —muting your conversation, or
  —recording your conversation.

## Selecting the flash time

The flash time depends on your telephone exchange or host PBX.
You can select the following flash times: "700, 600, 400, 300, 250, 110, 100 or 90 ms (milliseconds)". Your phone comes from the factory set to "700 ms".
**Make sure the unit is not being used and the handset is lifted off the base unit.**

**1** Press (**FUNCTION/2WAY REC**).

**2** Scroll to "Program" by pressing ▼ or ▲.

```
 Ringer pattern
▶Program
 --------------
```

**3** Press ▶.

**4** Scroll to "Set flash time" by pressing ▼ or ▲.

```
 TAD program
▶Set flash time
 Set line mode
```

**5** Press ▶.
  •The current setting is displayed.

```
 Flash time
          :700ms
▼▲        ▶=Save
```

**6** Select the desired time by pressing ▼ or ▲.

**7** Press ▶ (Save key).
  •A beep sounds.
  •To exit the programming mode, press (**OFF**).

•You can exit the programming mode any time by pressing (**OFF**).
•If the unit is connected via a PBX, PBX functions (transferring a call etc.) might not work correctly. Consult your PBX supplier for the correct setting.

# Automatic Answering Operation

When the unit answers a call, a greeting message is played and the caller's message is recorded.

- •The total recording time (including greeting message) is **about 15 minutes**. If messages are recorded in noisy rooms, the time may be shortened by up to 3 minutes.
- •A maximum of 64 messages (including greeting message) can be recorded.

## Setting the Unit to Answer Calls

Press (ANSWER ON) to turn on the answering system.

- •The indicator lights and "Answer set" is heard.
- •The unit will announce the remaining recording time if it is less than 5 minutes.
- •If you hear "Memory full", "**FULL**" is displayed on the base unit and the ANSWER ON indicator flashes rapidly, erase some, or all, of the messages (p. 64).

(ANSWER ON) and Indicator

- •If you do not want the unit to answer calls, press (ANSWER ON) again to turn off the answering system. The indicator light goes out and "Answer off" is heard.
- •You can also turn on the answering system remotely using any other phone (p. 71).

## Monitoring incoming calls

While a call is being recorded, you can monitor it through the speaker. To answer the call with the base unit speakerphone, press (SP-PHONE). For the handset, press 📞 or 🔲. The unit stops recording.

# Listening to Messages →

You can see the total number of recorded messages on the base unit display. If MESSAGE PLAYBACK indicator flashes, new messages have been recorded.

To play back messages, press (MESSAGE PLAYBACK/SLOW TALK).

**When you have new messages:** the unit announces the number of new messages and only new messages are played back.

**When you have no new messages:** the unit announces "No new messages. All message playback" and plays back all messages.

**When you have no messages:** the unit announces "No messages".

At the end of the last message, "End of final message" is heard. The unit will announce the remaining recording time if it is less than 5 minutes.

(MESSAGE PLAYBACK/SLOW TALK)

During playback, the display shows the message number.

MESSAGE PLAYBACK Indicator

(STOP)

(SKIP)

(REPEAT)

To increase the volume, press **VOLUME** (∧). To decrease, press **VOLUME** (∨).

## Slow Talk Message Playback

For easier listening of recorded messages, you can slow down the playback speed by pressing (MESSAGE PLAYBACK/SLOW TALK) during playback. Each time you press the button, the playback speed will change to slow/normal.

Press (MESSAGE PLAYBACK/SLOW TALK) during playback.

•The playback speed will slow down by 30%.
•To return to the normal speed, press (MESSAGE PLAYBACK/SLOW TALK) again during playback.
•The playback speed will return to normal after playing back all messages.

## During playback

| To **repeat** message | Press **REPEAT**.<br>•If you press within 5 seconds of playback, the previous message will be played. |
|---|---|
| To **skip** message | Press **SKIP**. |
| To **stop** operation | Press **STOP**.<br>•To resume playback, press **MESSAGE PLAYBACK/SLOW TALK**.<br>•If you do not press any button for 60 seconds or if you press **STOP** again, the playback mode will be canceled. |

---

### For Caller ID service users (p. 37)

During playback, when the handset is on the base unit, the handset display will show the name and/or number of the caller whose message is being played.

Display

#### To call back the displayed number:

During playback, lift the handset and press ⬝ or ⬝ within 10 seconds.

—The unit stops playback and automatically dials the displayed phone number.

•After listening to new incoming messages, "√" will be added to the call entries in the Caller ID Caller List (p. 39).

# From the Handset

If someone else is in the room and you want to listen to the recorded messages privately, you can use the handset.

**1** Handset:
Press [FLASH/CALL WAIT/PLAYBACK].

•The number of new messages is heard on the handset.
•"Remote operation" will be displayed.

**2** Base unit:
To listen to messages:
Press [MESSAGE PLAYBACK/SLOW TALK].

**When you have new messages:**
the unit announces the number of new messages and only new messages are played back.

**When you have no new messages:**
the unit announces "No new messages. All message playback" and plays back all messages.

**When you have no messages:**
the unit announces "No messages".

•The messages will be heard on the handset.
•[MESSAGE PLAYBACK/SLOW TALK], [REPEAT], [SKIP] and [STOP]* can also be used during playback (p. 62).

**3** When finished, press [FLASH/CALL WAIT/PLAYBACK] or place the handset on the base unit.

•You can also listen to messages without using the base unit. See page 72.

*When you press [STOP] during playback, operation is stopped.
To resume the playback, press [MESSAGE PLAYBACK/SLOW TALK] within 15 seconds, or the voice menu will start (p. 72).

# Erasing Messages

The unit will announce the remaining recording time after playback, if it is less than 5 minutes. New messages cannot be recorded when:
—"Memory full" is heard.
—" **FULL** " is displayed on the base unit.
—the ANSWER ON indicator flashes rapidly.
Erase some, or all, of the messages. We recommend you erase unnecessary messages after each playback.

## Erasing a specific message

Press (**ERASE**) while the message you want to erase is being played.

•The unit erases the message.
•A short beep will sound and the unit will continue to play the next message.

## Erasing all messages

All recorded messages, except the greeting message, can be erased at one time.

1 Press (**ERASE**).
•"To erase all messages, press ERASE again" is heard.

2 Within 5 seconds, press (**ERASE**) again.
•A long beep sounds and "No messages" is heard.
•The base unit display shows "0".

ANSWER ON Indicator

(**ERASE**)

•The information in the Caller List will not be erased. To erase Caller List information, see page 44.

# Recording a Memo Message

You may record a personal message in memory.

**1** Press [MEMO].
- •A long beep sounds.

**2** After the beep, talk clearly approximately 8 inches (20 cm) away from the **MIC**.
- •The base unit display shows the elapsed recording time.

**3** When finished, press [MEMO] or [STOP].
- •A beep sounds.
- •The MESSAGE PLAYBACK indicator flashes.

[STOP]

[MEMO]

MESSAGE PLAYBACK Indicator

MIC

# Recording Your Telephone Conversation

**1** During a conversation with the handset, press [FUNCTION/2WAY REC].
- •"2way record" is displayed on the handset.
- •The base unit display shows the elapsed recording time.

**2** Continue your conversation.

**3** When finished recording the conversation, press [FUNCTION/2WAY REC].
- •The MESSAGE PLAYBACK indicator flashes.

•While recording your conversation, Call Waiting Caller ID feature cannot be used.

[FUNCTION/2WAY REC]

Many states have imposed regulations on the manner in which 2-way telephone conversations may be recorded, so you should inform the other party that the conversation is being recorded. Consult your local telephone company for further information.

# Remote Operation from a Touch Tone Phone

You can operate the answering system from any touch tone phone. A synthesized voice menu will guide you on how to operate the unit (p. 68).

•To skip the voice menu and operate the unit directly, see page 70.

## Summary of remote operation

Call your unit from a touch tone phone.

⬇

Enter your remote code (p. 67) during or after the greeting message.
•The number of new messages is heard.

⬇

After 3 seconds, the voice menu will start (p. 68).
Follow the menu or enter the direct commands (p. 70).

⬇

To end remote operation, hang up.
•The messages are saved.

•The unit will announce the remaining recording time after playback, if it is less than 5 minutes.

# Remote Code

The remote code prevents unauthorized people from accessing your unit and listening to your messages. Choose any **2-digit number (00–99)**. The factory preset remote code is "**11**". If you do not program your own remote code, you can use "11".
**Make sure the unit is not being used and the handset is lifted off the base unit.**

**1** Press (**FUNCTION/2WAY REC**).

**2** Scroll to
"P       r       o       g
r
a       m" by pressing ▼ or ▲.

**3** Press ▶.

**4** Press ▶ at "T       A       D
p
r               o               g
r
a       m".

**5** Scroll to
"R   e   m   o   t   e
c       o       d       e" by
pressing ▼ or ▲.

**6** Press ▶.
•The current setting is displayed.

**7** Enter a remote code using a **2-digit number (00–99)**.

**8** Press ▶
•A beep sounds from the base unit.       v       e key).
•To exit the programming mode, press (**OFF**).

## Voice Menu

The shaded boxes are voice prompts.

Press 1 to play back all messages.
Press 2 for other functions.
→ Press **1**. → All message playback.

Press **2**.

Press 1 to play back new messages.
Press 2 for other functions.
→ Press **1**. → New message playback.

Press **2**.

Press 1 to record your message.
Press 2 for other functions.
→ Press **1**. → Please leave your message.

Press **2**.

Press 1 to erase all messages.
Press 2 for other functions.
→ Press **1**.

Press **2**.

Press 1 to record your greeting.
Press 2 for other functions.
→ Press **1**. → Press 7 to record your greeting. Press 9 to end recording.

Press **2**.

**All Message Playback**
All recorded messages are played back. At the end of the last message, "End of final message" is heard. The unit will announce the remaining recording time if it is less than 5 minutes.

**New Message Playback**
Only new messages are played back. At the end of the last message, "End of final message" is heard. The unit will announce the remaining recording time if it is less than 5 minutes.

**Recording a Memo Message**
You can leave a personal message.
1. Talk after you hear "Please leave your message".
2. When you finish recording, hang up.

**Erasing All Messages**
All recorded messages (except greeting message) are erased.

**Recording a Greeting Message**
You can re-record your greeting message.
1. Press 7.
   You will hear a voice prompt followed by a long beep.
2. After the beep, talk for up to 2 minutes.
3. When you finish recording, press 9.
4. Your greeting will be played back for confirmation.

*Answering System*

•3 seconds after playback, the voice menu will start again from the beginning.
•If you hear "Memory full" after playback, erase some, or all, of the messages (p. 71).

# Direct Remote Operation

Once you have entered the remote code, you can also control your unit by direct commands instead of using the voice menu. To end the remote operation, hang up anytime.

## Direct commands

| | | |
|---|---|---|
| NEW MESSAGE PLAYBACK | **4** | •Only new messages are played back. |
| ALL MESSAGE PLAYBACK | **5** | •All messages are played back. |
| REPEAT (During playback) | **1** | •The current message is repeated. <br> •If you press within 5 seconds of playback, the previous message will be played. |
| SKIP (During playback) | **2** | •The current message is skipped. The next message is played. |
| CHANGING PLAYBACK SPEED (During playback) | **3** | •Each time you press the button, the playback speed will change to slow/normal. |
| STOP | **9** | •Operation is stopped temporarily. <br> •To resume operation, enter a direct command within 15 seconds, or the voice menu will start. |
| GREETING MESSAGE RECORDING | **7** ⬇ RECORD ⬇ **9** | •A long beep sounds. <br><br> •After the beep, talk immediately for up to 2 minutes. <br><br> •The recording is stopped. <br> •The recorded message is played. |

*70*

| ERASING A SPECIFIC MESSAGE (During playback) | ✱ 4 | •The current message is erased. <br> •A short beep will sound and the next message will be played. |
|---|---|---|
| ERASING ALL MESSAGES | ✱ 5 | •All recorded messages are erased. <br> •A long beep sounds and "No messages" is heard. |
| ANSWERING SYSTEM OFF | 0 | •The unit hangs up and will not answer calls until turned on again. |

## Turning on the answering system

Call your unit and wait for 15 rings.

•The unit will answer and the greeting message will be played.
•The answering system will turn on. Hang up or enter the remote code for other options.
•When turning on the answering system using a rotary or pulse service telephone, you cannot enter the remote code for other options.

## Skipping the greeting message

After calling your unit, press ✱ during the greeting message.

•The unit skips the rest of the greeting message and you can start recording your message after the long beep.

# Remote Operation with the Handset

You can operate your answering system with the handset.
The announcements and recorded messages can only be heard with the handset.

(OFF)

(FLASH/CALL WAIT/PLAYBACK)

## Summary of remote operation

Press (**FLASH/CALL WAIT/PLAYBACK**).
•The number of new messages is heard.
•"Remote operation" is displayed on the handset.

**To listen to the announcements and messages from the speaker,** press ⌧ while they are heard.
•To switch back to the receiver, press ⌧.

Enter the desired direct commands (p. 73).
•If you do not enter a command, the voice menu will start (see below).
•After the voice menu, all message playback will start.

To end remote operation, press (**FLASH/CALL WAIT/PLAYBACK**) or (**OFF**).
•The messages are saved.

•The unit will announce the remaining recording time after playback, if it is less than 5 minutes.
•If the unit starts to ring during the remote operation, press ⌧ or ⌧ to answer the call. The remote operation is ended.
•If you hear "Memory full" after playback, erase some, or all, of the messages (p. 73).

## Voice menu

If no commands are entered after you press (**FLASH/CALL WAIT/PLAYBACK**), the unit will start the following voice menu.

"Press 4 to play back new messages. Press 5 to play back all messages."

•You can enter direct commands even if the voice menu has started.

## Direct commands

| | | |
|---|---|---|
| NEW MESSAGE PLAYBACK | **4** | •Only new messages are played back. |
| ALL MESSAGE PLAYBACK | **5** | •All messages are played back. |
| REPEAT (During playback) | **1** | •The current message is repeated.<br>•If you press within 5 seconds of playback, the previous message will be played. |
| SKIP (During playback) | **2** | •The current message is skipped. The next message is played. |
| CHANGING PLAYBACK SPEED (During playback) | **3** | •Each time you press the button, the playback speed will change to slow/normal. |
| STOP | **9** | •Operation is stopped temporarily.<br>•To resume operation, enter a direct command within 15 seconds, or the voice menu will start (p. 72). |
| ERASING A SPECIFIC MESSAGE (During playback) | **✱** **4** | •The current message is erased.<br>•A short beep will sound and the next message will be played. |
| ERASING ALL MESSAGES | **✱** **5** | •All recorded messages are erased.<br>•A long beep sounds and "No messages" is heard. |
| ANSWERING SYSTEM OFF | **0** | •"Answer off" is heard and the answering system is turned off. |
| ANSWERING SYSTEM ON | **8** | •"Answer set" is heard and the answering system is turned on. |

*Answering System*

# Wall Mounting

This unit can be mounted on a wall phone plate.

1   Push the hook and turn it around.
    Turn the hook until a click is heard.

2   Connect the AC adaptor.

To Power
Outlet

3   Tuck the telephone line cord inside
    the wall mounting adaptor, then
    push it in the direction of the arrow.

    •The word "UP" should face upward.

**4** Connect the telephone line cord.
Mount the unit, then slide down.

- Raise the antenna.
- Fasten the telephone line cord to prevent it from being disconnected.

Hooks

**5** **To charge the handset battery:**
Fix the charge contacts (①) and insert the hook to the handset hole (②).

- The IN USE/CHARGE indicator lights.

Hook

Hole

②

①

**OR**

# Belt Clip

You can hang the handset on your belt or pocket using the belt clip.

**To attach the belt clip**        **To remove the belt clip**

# Optional Headset

Plugging an optional headset into the handset allows a hands-free phone conversation. Please use only a Panasonic KX-TCA88 or KX-TCA90 headset. To order, call the accessories telephone number on page 2.

## Connecting an optional headset to the handset

Open the headset jack cover, and connect an optional headset to the headset jack as shown below.

The illustration headset is a KX-TCA88.

Headset Jack

**To switch to the speakerphone while using the headset:**
Press 🔊. To return to the headset, press 📞.

# Battery Replacement

If "`Recharge`" is displayed and/or "{  █}" flashes after being fully charged, replace the battery with a new Panasonic N4HKGMA00001 (P-P511) battery. To order, call the accessories telephone number on page 2.

**1** Press the notch on the handset cover firmly and slide it as indicated by the arrow.

**2** Remove the old battery. Insert the new battery into the handset as shown, matching the correct polarity (①). Press the battery down until it places into the compartment (②).

**3** Close the cover. Make sure you charge the new battery for about 15 hours in order to display the battery strength prompt correctly (p. 14).

A nickel cadmium battery that is recyclable powers the product you have purchased. At the end of its useful life, under various state and local laws, it is illegal to dispose of this battery into your municipal waste stream. Please call 1-800-8-BATTERY for information on how to recycle this battery.

*Useful Information*

# Adding Another Phone

This unit will not function during a power failure. To connect a standard telephone on the same line, use the Panasonic T-adaptor KX-J66.
To order, call the accessories telephone number on page 2.

Standard Telephone

Single-Line
Telephone Jack

Telephone
Line Cord

T-Adaptor (KX-J66)

# Troubleshooting →

## Cordless Telephone

| Problem | Remedy |
|---|---|
| "`No link to base Place on cradle and try again.`" is displayed and an alarm tone sounds. | •You are too far from the base unit. Move closer and try again.<br>•Place the handset on the base unit and try again.<br>•Plug in the AC adaptor.<br>•Raise the base unit antenna. |
| Static, sound cuts in/out, fades. Interference from other electrical units. | •Locate the handset and the base unit away from other electrical appliances (p. 3).<br>•Move closer to the base unit.<br>•Raise the base unit antenna.<br>•Press ◄ to select a clearer channel in the talk, speakerphone, intercom or remote operation mode. |
| The handset and/or the base unit does not ring. | •The ringer volume is set to OFF. Set to HIGH or LOW (p. 20).<br>•When the handset is on the base unit, the handset does not ring. Only the base unit rings in the selected pattern when receiving a call. |
| The handset display is blank. | •Charge the battery fully (p. 14). |
| You cannot store a name and phone number in the directory. | •You cannot store an item in the directory while the unit is in the talk, speaker or intercom mode, while the answering system is in use or while storing phone numbers in the base unit.<br>•Do not pause for over 60 seconds while storing. |
| While programming or searching, the unit starts to ring and stops the program/ search. | •To answer the call, press ⟍, ⟨🕩⟩ or ⟨SP-PHONE⟩. Start again from the beginning after hanging up. |
| You cannot make a call with the handset. | •You cannot make a call when the unit is in the remote operation mode. Exit the mode by pressing ⟨OFF⟩ (p. 72). |

*Useful Information*

# ➡ Troubleshooting

| Problem | Remedy |
|---------|--------|
| The unit does not display the caller's name and/or phone number. | •You need to subscribe to a Caller ID service. <br>•Other telephone equipment may be interfering with your phone. Disconnect it and try again. <br>•Other electrical appliances connected to the same outlet may be interfering with the Caller ID information. <br>•Telephone line noise may be affecting the Caller ID information. |
| The handset display exits the Caller List. | •Do not pause for over 60 seconds while searching. |
| When a second call is received during a conversation, the unit does not display the new caller's name and/or phone number. | •The line mode selection is incorrect. See page 17. <br>•The caller requested not to send his/her information. See page 37. |
| You cannot page the handset. | •The handset is too far from the base unit. <br>•The handset is engaged in an outside call, viewing the Caller List/directory list or listening to messages. Wait until the IN USE/CHARGE indicator light goes out. |
| You cannot redial by pressing (REDIAL/PAUSE). | •If the last number dialed was more than 32 digits long, the number will not be redialed correctly. <br>•The button has a double function as either redial or pause. It will redial the last number dialed if pressed at the outset of a call (p. 31, 35). If another number has been dialed first, it will operate as a pause button (p. 58). |
| You pressed (CALLER IQ) in the talk or speakerphone mode. | •To return to a normal phone conversation, press (HOLD/INTERCOM/CLEAR). |

| Problem | Remedy |
|---|---|
| You cannot have a conversation using the headset. | •Make sure that an optional headset is connected properly (p. 76).<br>•⦗🕬⦘ may have been pressed. If "SP-phone" is displayed on the handset, press ⦗📞⦘ to continue the conversation with the headset. |

## Answering System

| Problem | Remedy |
|---|---|
| The answering system is on, but incoming messages are not recorded. | •The recording time is set to "Greeting only". Select "1 minute", "2 minutes" or "3 minutes" (p. 28).<br>•Memory is full. Erase some, or all, of the messages (p. 64). |
| You cannot listen to the recorded messages. | •Make sure that the unit is not being used. |
| "*FULL*" is displayed and the ANSWER ON indicator flashes rapidly, and no new messages are recorded. | •Memory is full. Erase some, or all, of the messages (p. 64). |
| You cannot operate the answering system with the base unit. | •The handset user is operating the answering system, or is engaged in an outside call. Wait until the IN USE/CHARGE indicator light goes out. |
| You cannot operate the answering system from a touch tone phone. | •Make sure you enter the correct remote code.<br>•The answering system may not respond if the tones are too short to activate the unit. Press each button firmly.<br>•The answering system is off. Turn it on (p. 71). |

*Useful Information*

# ➡ Troubleshooting

| Problem | Remedy |
|---|---|
| You cannot operate the answering system with the handset. | •Someone is operating the answering system.<br>•You are too far from the base unit. Move closer to the base unit.<br>•The unit is recording a message. To answer the call, press ⟨☎⟩ or ⟨🔊⟩. |
| While recording a greeting message, the unit starts to ring and stops recording. | •To answer the call, press (SP-PHONE), ⟨☎⟩ or ⟨🔊⟩. Start again from the beginning after hanging up. |
| During playback, the unit starts to ring and stops playback. | •To answer the call, press (SP-PHONE), ⟨☎⟩ or ⟨🔊⟩. To resume playback, press (MESSAGE PLAYBACK/SLOW TALK) after hanging up. |

## General

| Problem | Remedy |
|---|---|
| The unit does not work. | •Check the settings (p. 13–17).<br>•Charge the battery fully (p. 14).<br>•Clean the charge contacts and charge again (p. 15).<br>•Install the battery properly (p. 14).<br>•Place the handset on the base unit and unplug the AC adaptor to reset. Plug in, and try again.<br>•Re-install the battery and place the handset on the base unit (p. 77). Try again. |
| You cannot program items, such as the dialing mode. | •Programming is not possible while the unit is in the talk or speakerphone mode, when viewing the Caller List/directory list, or while the answering system is in use.<br>•Do not pause for over 60 seconds while programming.<br>•Move closer to the base unit.<br>•⟨▼⟩, ⟨▲⟩, ⟨◀⟩ or ⟨▶⟩ may have been pressed when you picked up the handset. Press (OFF) and try again. |

| Problem | Remedy |
|---|---|
| Previously programmed information is erased. | •If a power failure occurs, programmed information may be erased. Reprogram if necessary. |
| "`Recharge`" is displayed, "❴ ▌❵" flashes or the unit beeps intermittently. | •Charge the battery fully (p. 14). |
| You charged the battery fully, but "`Recharge`" is still displayed and/or "❴ ▌❵" continues to flash. | •Clean the charge contacts and charge again (p. 15).<br>•Install a new battery (p. 77). |
| The IN USE/CHARGE indicator light does not go out after the battery has been charged. | •This is normal. |
| If you cannot solve your problem | •Call our customer call center at 1-800-211-PANA(7262).<br>•Panasonic's e-mail address for customer inquiries: consumerproducts@panasonic.com for customers in the USA or Puerto Rico ONLY |
| After Caller IQ is turned to off, the unit is unable to turn it back on and LCD shows "`Listen & follow phone guidance.`" without any voice prompt announced from the handset. | •Place the handset on the base unit, lift the handset and try again.<br>•Check the settings (p. 85–87).<br>•If you cannot solve a problem, consult openLCR (see below). |
| For more information about Caller IQ | •Call openLCR's customer service department at 1-866-openLCR (1-866-673-6527).<br>•openLCR's web site: www.openLCR.com |

# openLCR Service for Caller IQ Feature

The Caller IQ feature is compatible with service provided by openLCR.

**Important:**
- **If you have any questions regarding the openLCR service, call openLCR's customer service department at 1-866-openLCR (1-866-673-6527).**
- NEITHER KYUSHU MATSUSHITA ELECTRIC CO., LTD. (KME) NOR MATSUSHITA ELECTRIC CORPORATION OF AMERICA (MECA) IS IN ANY WAY AFFILIATED WITH, OR RESPONSIBLE FOR THE ACTS OR OMISSIONS OF, OPENLCR.COM, INC. (OPENLCR). NEITHER KME NOR MECA NOR ANY OF THEIR EMPLOYEES OR AFFILIATES OR CUSTOMERS MAKE ANY WARRANTIES OR REPRESENTATIONS, EITHER EXPRESS OR IMPLIED, TO ANY CUSTOMER OR ANY OTHER THIRD PARTY WITH RESPECT TO ANY OF THE SERVICES PROVIDED BY OPENLCR, NOR ASSUME NOR CREATE ANY OTHER OBLIGATION OF ANY KIND ON BEHALF OF OPENLCR.

# Setting Caller IQ to OFF and ON

After the first download to your phone, the Caller IQ features are automatically turned on. If you need, you can turn off Caller IQ.

## To set Caller IQ to OFF (When Caller IQ is ON.)

**1** Press (CALLER IQ).

```
Press "1" or "#".
1:View Info.
#:Get new Info.
```

**2** Press (0).

```
To disable
Caller IQ,
press 3,#.
```

**3** Press (3).

```
To disable
Caller IQ,
press #.
```

**4** Press (#).
- A beep sounds and Caller IQ function is set to OFF.
- The handset will exit the programming mode.
- If 3 beeps sound, Caller IQ is not set to OFF. Start again from step 1.

```
Caller IQ off
```

## To set Caller IQ from OFF to ON

**1** Press (CALLER IQ).

```
To enable
Caller IQ,
press 0,1,*.
```

**2** Press (0).

```
To enable
Caller IQ,
press 1,*.
```

**3** Press (1).

```
To enable
Caller IQ,
press *.
```

**4** Press (*).
- A beep sounds and Caller IQ function is set to ON.
- The handset will exit the programming mode.
- If 3 beeps sound, Caller IQ is not set to ON. Start again from step 1.

```
Caller IQ on
```

- In steps 1 through 3, if you do not press any buttons for 60 seconds or you press (OFF), the handset will exit the programming mode.

*Useful Information*

# Downloading the Telephone Directory Data

To edit your telephone directory, go to the openLCR web site to update your directory, and then download the data to your unit. Accessing the openLCR web site can be done from any computer with Internet access, such as your home, work, library, Internet cafe, etc.

## To edit the directory data

If you have already stored items into the directory of the unit, you need to enter all of that items on to the web. Then, add new items on the web site.

**1.** Go to openLCR's web site at **www.openLCR.com** and click on "Manage Account" tab.
**2.** Follow the web screen to edit the telephone directory data.
  •Make sure to enter a name up to 15 characters, and a phone number up to 22 digits.

•In the case that you stored or edited the items in the directory of the unit, you also need to store or edit the items on the web site.
•The description on the openLCR web screen is subject to change without notice.

## To download the directory data from openLCR

**1** Press 🕾 or 🕼, and then, press **CALLER IQ**.

```
To get
new Info.,
please press #.
```

**2** Press #.
  •The unit will dial to openLCR automatically.
  •A voice prompt will be heard.

```
Talk
Listen & follow
phone guidance.
```

> If you live in or move from another area to Fort Collins, Colorado, press **2** instead of **#**.

**3** Follow the voice prompt to start downloading.

```
Download in
process.
Please wait.
```

  •When the downloading starts, the display will show the message on the right.
  •After downloading starts, the handset must be off-hook. DO NOT PLACE the handset on the base unit (placing the handset on the base unit will terminate the download process). DO NOT PRESS **OFF** (pressing **OFF** will terminate the download process).

**4** When downloading is complete, a beep sounds.

```
Download OK!
```

  •If 3 beeps sound and "`Download incomplete. Directory full.`" is displayed, some items cannot be stored in the directory. Erase items which do not exist on the web from the directory of the unit (p. 54). Then, start again from step 1.

•You cannot access the openLCR server if a telephone or fax machine on the same phone line is in use.
•While the unit is downloading the data from openLCR, the Call Waiting Service cannot be used.

# Information Download

This enables you to view information such as weather, lottery results and stock quotes from the LCD display on your openLCR-ready unit. Each time you download the data from openLCR, the information will be updated. To view up-to-date information, you will need to download to your unit.

•You can select the items of information on the web site which you want to view.

## To update information

**1** Press ✆ or 🔊, and then, press **CALLER IQ**.

**2** Press #.
•The unit will dial to openLCR automatically and start downloading information.

> If you live in or move from another area to Fort Collins, Colorado, press 2 instead of #.

**3** When downloading is complete, a beep sounds.

## To view information

**1** Press **CALLER IQ**.

```
Press "1" or "#".
1:View Info.
#:Get new Info.
```

**2** Press 1.
•The items of information which you selected on the web are displayed.

```
1:Weather
2:Lottery
3:Stock
```

**3** Select the desired information by pressing dialing buttons 1 to 3.

Ex. Weather

```
6-28 12:58pm
Fort Collins CO
78 F PartlyCldy
```

**4** Find more information by pressing ▼ or ▲.

```
H 90 L 70 F
UV 2 Dew 64 F
Humidity 42%
```

**5** When finished, press **OFF** or place the handset on the base unit.

```
[Caller IQ on]

          {▮▮▮}
```

*Useful Information*

# Important Safety Instructions

When using this unit, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from AC outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit near water, for example, near a bathtub, washbowl, kitchen sink, or the like.
5. Place this unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
6. Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating. Never place the unit near radiators, or in a place where proper ventilation is not provided.
7. Use only the power source marked on the unit. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
8. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
9. Do not overload wall outlets and extension cords. This can result in the risk of fire or electric shock.
10. Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
11. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized servicenter when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
12. Unplug this unit from the wall outlet and refer servicing to an authorized servicenter when the following conditions occur:
    A. When the power supply cord or plug is damaged or frayed.
    B. If liquid has been spilled into the unit.
    C. If the unit has been exposed to rain or water.
    D. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorized servicenter.
    E. If the unit has been dropped or physically damaged.
    F. If the unit exhibits a distinct change in performance.
13. During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of an electric shock from lightning.
14. Do not use this unit to report a gas leak, when in the vicinity of the leak.

# SAVE THESE INSTRUCTIONS

## CAUTION:

To reduce the risk of fire or injury to persons, read and follow these instructions.

1. Use only the battery(ies) specified.
2. Do not dispose of the battery(ies) in a fire. They may explode. Check with local waste management codes for special disposal instructions.
3. Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
4. Exercise care in handling batteries in order not to short the battery to conductive materials such as rings, bracelets, and keys. The battery and/or conductor may overheat and cause burns.
5. Charge the battery(ies) provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.

## WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

• The AC adaptor is used as the main disconnect device, ensure that the AC outlet is located/installed near the unit and is easily accessible.

*Useful Information*

# FCC and Other Information

If requested by the telephone company, inform them as follows:
Registration No. ....................................................(found on the bottom of the unit)
Ringer Equivalence ................................................................................................0.1B
The particular telephone line to which the equipment is connected.

This unit must not be connected to a coin operated line.
If you are on a party line, check with your local telephone company.

**Ringer Equivalence No. (REN):**
The REN is useful in determining the quantity of devices you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

In the event terminal equipment causes harm to the telephone network, the telephone company should notify the customer, if possible, that service may be stopped.

However, where prior notice is impractical, the company may temporarily cease service providing that they:
(a) Promptly notify the customer.
(b) Give the customer an opportunity to correct the problem with their equipment.
(c) Inform the customer of the right to bring a complaint to the Federal Communication Commission pursuant to procedures set out in FCC Rules and Regulations Subpart E of Part 68.

The Telephone Company may make changes in its communications facilities, equipment, operations or procedures, where such action is reasonably required in the operation of its business and is not inconsistent with the rules and regulations in 47 CFR Part 68.

If such changes can be reasonably expected to render any customer terminal equipment incompatible with telephone company communications facilities, or require modification or alteration of such terminal equipment, or otherwise materially affect its use or performance, the customer shall be given adequate notice in writing, to allow the customer an opportunity to maintain uninterrupted service.

When programming emergency numbers and/or making test calls to emergency numbers:
1. Remain on the line and briefly explain to the dispatcher the reason for the call before hanging up.
2. Perform such activities in the off-peak hours, such as early morning hours or late evenings.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Privacy of communications may not be ensured when using this phone.

**CAUTION:**

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

**Note:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.

Some cordless telephones operate at frequencies that may cause interference to nearby TVs and VCRs. To minimize or prevent such interference, the base of the cordless telephone should not be placed near or on top of a TV or VCR. If interference is experienced, move the cordless telephone further away from the TV or VCR. This will often reduce, or eliminate, interference.

Operating near 2.4GHz electrical appliances may cause interference. Move away from the electrical appliances and/or press the CH (Channel) button.

**CAUTION:**

To comply with FCC RF exposure requirements, the base unit should be installed with its antenna located at 20 cm or more from persons and handset should be carried with the specific belt-clip provided for the handset to ensure compliance. Other non-tested belt-clips or similar body-worn accessories may not comply, therefore, should be avoided.

This equipment is hearing aid compatible as defined by the FCC in 47 CFR Section 68.316.

> When you hold the phone to your ear, noise might be heard in your Hearing Aid. Some Hearing Aids are not adequately shielded from external RF (radio frequency) energy. If noise occurs, use an optional headset accessory or the speakerphone option (if applicable) when using this phone. Consult with your audiologist or Hearing Aid manufacturer about the availability of Hearing Aids which provide adequate shielding to RF energy commonly emitted by digital devices.

A TIA/EIA-IS-968 compliant telephone cord and modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack that is also TIA/EIA-IS-968 compliant.

*Useful Information*

# ➡ FCC and Other Information

The software contained in this equipment to allow user access to the network must be ungraded to recognize newly established network area codes and exchange codes as they are placed into service.

Failure to upgrade the premises systems or peripheral equipment to recognize the new codes as they are established will restrict the customer and the customer's employees from gaining access to the network and to these codes.

- **Environment** — do not place the unit in a room where the temperature is less than 5°C (41°F) or greater than 40°C (104°F). Allow 10 cm (4") clearance around the unit for proper ventilation. Avoid excessive smoke, dust, mechanical vibration, shock, or direct sunlight.
- **Medical** — consult the manufacturer of any personal medical devices, such as pacemakers, to determine if they are adequately shielded from external RF (radio frequency) energy. (The unit operates in the frequency range of 2402MHz to 2480MHz, and the power output level can range 0.015 watts.) Do not use the unit in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF (radio frequency) energy.
- **Routine care** — wipe the unit with a soft cloth. Do not use benzine, thinner, or any abrasive powder. When you leave the unit unused for a long period of time, unplug the AC adaptor from the outlet.
- **If there is any trouble** — disconnect the unit from the telephone line and connect a known working phone. If the known working phone operates properly, have your unit repaired by one of the authorized Panasonic Factory Service Centers. If the known working phone does not operate properly, consult your telephone company.

# Index

*Useful Information*

## For product service

•Call 1-800-211-PANA(7262) for the location of an authorized servicenter.
•Panasonic's e-mail address for customer inquiries:
 consumerproducts@panasonic.com
 for customers in the USA or Puerto Rico ONLY

## When you ship the product

•Carefully pack your unit, preferably in the original carton.
•Attach a letter, detailing the symptom, to the outside of the carton.

Symptom
_____

_____

•Send the unit to an authorized servicenter, prepaid and adequately
 insured.
•Do not send your unit to the Panasonic Consumer Electronics Company
 listed on the back cover or to executive or regional sales offices. These
 locations do not repair consumer products.

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• This cordless telephone is designed for use in the United States of America.
  Sale or use of this product in other countries may violate local laws.
• Ce téléphone sans fil est conçu pour être utilisé aux États-Unis d'Amérique.
  La vente ou l'emploi de cet appareil dans certains autres pays peut constituer
  une infraction à la législation locale.
• Este teléfono sin cordón fue elaborado para uso en los Estados Unidos de
  América. La venta o el empleo de este producto en ciertos países puede
  constituir violación de la legislación local.
• このコードレス電話機は、日本国外での使用を目的として設計されており、日本国内
  での使用は法律違反となります。従って、当社では日本国内においては原則として修
  理などのサービスは致しかねます。

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## For your future reference

Serial No. _____          Date of purchase _____
(found on the bottom of the unit)

Name and address of dealer _____

**If you need assistance with the set-up or operation, please call 1-800-211-PANA(7262)**